Falk IBEX

User Manual

Legal information
United Navigation GmbH
Marco-Polo-Str.1
73760 Ostfildern

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All illustrations similar to actual product.

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Safety instructions and maintenance

Safety instructions

The device may only be stored at temperatures of from -20°C - 60°C and be operated at temperatures of from -10°C – 60°C.
Keep your device away from extreme temperatures. The device should only be operated and stored in an atmospheric humidity of from 0% to 90%.
Do not expose your device to sudden great fluctuations in temperature. This could result in condensation collecting in the device, which could damage it. If any condensation forms, wait until the device has completely dried out.

The device is waterproof in accordance with the IPX7 standard. This means that the device is also protected against being temporarily submerged.
Caution: To ensure that the device is protected against the ingress of water, the following aspects must be followed:
Make sure that the rubber cover for the USB port on the bottom of the device is completely closed.
Also be aware that the housing cover must be correctly locked in place to prevent the ingress of water.
Note that the device must not be submerged for longer than 30 minutes in a water depth of 1 metre.

You must not place, store or leave your product in or next to heat sources, at places which have high temperatures or a high level of solar radiation, in a microwave oven or pressurised container, and you must also not expose it to any temperatures of over 60ºC (140ºF).
Use only Falk original accessories or Falk-approved adapters. The use of other components may result in malfunctions and/or serious damage.

Caution:

- This navigation device for outdoor use is merely an orientation and navigation aid which cannot be a substitute for making a sensible assessment of the situation you are in. Please in any event note the particular characteristics of the terrain and the routes you are using. Do not follow any routes or suggested routes which would entail a dangerous or illegal form of riding or would place you in a dangerous situation.
- The road traffic regulations must be complied with at all times, for example when cycling, and have priority over the routes of the navigation device.
- Never operate the navigation device while riding and do not allow yourself to be distracted by the device while riding.
- Please note that United Navigation GmbH does not accept any liability for any damage caused by the device/bracket becoming detached from the bicycle.
- The map data which is used may include inaccurate or incomplete data. You should therefore check the calculated route to see if it makes sense and choose your own alternative route if necessary.
- The navigation device is **NOT** suitable for use as a vehicle navigation system!

Disposal

DISPOSAL OF USED ELECTRICAL AND ELECTRONIC DEVICES (TO BE APPLIED IN THE COUNTRIES OF THE EUROPEAN UNION AND OTHER EUROPEAN COUNTRIES WITH A SEPARATE COLLECTION SYSTEM FOR THESE DEVICES)

The symbol on the product or its packaging indicates that this product cannot be treated as normal household waste, but must instead be handed in at a collection point for recycling

electrical and electronic devices. Your contribution to correctly disposing of this product helps to protect the environment and the health of your fellow human beings. The environment and health are endangered by incorrect disposal. Material recycling helps to reduce the consumption of raw materials. You can obtain further information about recycling this product from your local authority, the municipal waste disposal companies or the shop in which you purchased the product.

– WEEE Reg. No. DE 19715620

Aircraft and hospitals
The use of electronic devices is prohibited in most aircraft, in many hospitals and at lots of other places. The device must not be used in such environments. Always switch your device off wherever appropriate requests are made for you to do so.

CE certificates and RoHs
This device complies with the Directives of R&TTE 1999/5/EC and the Directive 2002/95/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL dated 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (ROHS). The link to the certificates can be called up here:
http://www.falk-outdoor.com/de/service/zertifikate.html.

Introduction

This manual describes the functions of the Falk LUX products.
Functions which do not apply to versions of products because they are not included in the standard scope of supply for the product are marked "**optional**".
The chapters are based around the menu structure of the application. This means you quickly know where you need to look to find an explanation of a particular function.
If you are still not able to find something, you can search for particular terms in the **Index**.
The **Glossary** explains important terminology to you.
The **Tips and tricks** help you to do what you want and quickly get to grips with your device.
If you have any problems using the device or something seems not to be working, the **Troubleshooting** section may be able to help. If this still does not provide you with a solution, please contact our **Service & support** team.

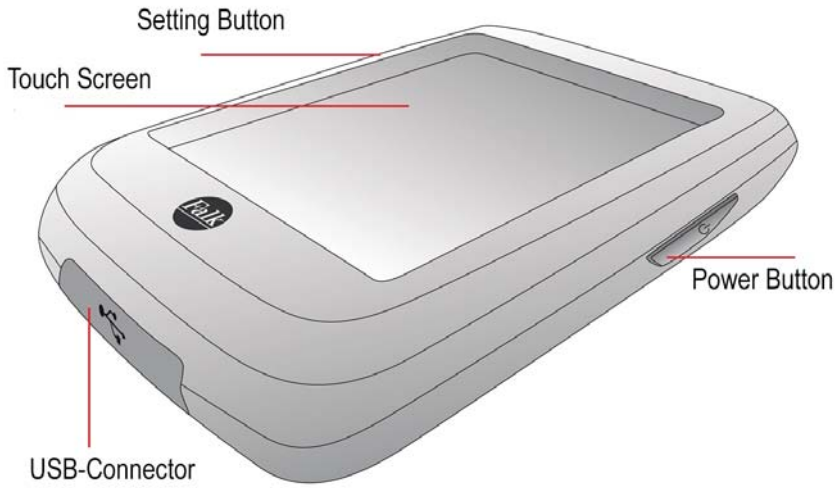
The following elements are used in this manual to make it easier to understand:

Note: Information worth knowing
Tip: Practical application aids
Caution: Warning notice to prevent any undesired effects

Important terms are marked in **bold** in the text.
All illustrations similar to actual product.

Device description

Device



Power Button: Switches the device on. When you press the power button during use, you have the following options:
Switch off: Switches the device off completely.
Stand-by: Switches to stand-by mode.
Screen off: The screen is switched off, ongoing navigations or track recordings remain active. This is done to save power.
Keylock on/off: Activates or deactivates the keylock. The keylock prevents unwanted entries being made via the screen. To deactivate the keylock, press the power button again and then "Keylock".
“Cancel” takes you back to the application.

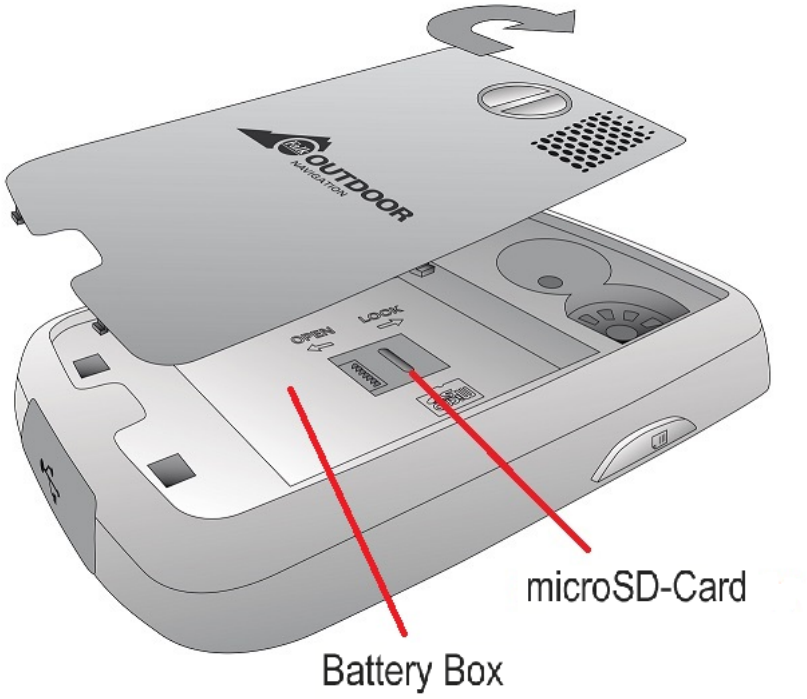
Setting Button: Default: For setting the volume and brightness. You can define yourself, which setting you can access through the Setting Button (see chapter 6.3.11)

Note: If the device stops responding and can no longer be operated, press the power button for approx. 3 seconds. The device will then restart.

Touch Screen: Displays the map and the menu. To make entries or select functions, use your finger to tap on the appropriate point on the screen.

USB Connector: Connector for charging up the battery via the adapter or for connecting the device to a PC via the USB cable.
The connector is located beneath a rubberised cover. Pull this up on the left-hand side to connect a cable.
Note: The rubberised cover also provides protection against the ingress of water. Make sure that it is always completely closed when using the device.

Speaker: The speaker is located on the back of the device. It emits navigation instructions and system alerts.



Opening and closing the housing cover

Turn the round closure on the back of the device clockwise (see illustration) and open the housing cover using the gap over the closure; it detaches itself completely from the device. To close it, place the housing cover with the bottom edge first onto the device and turn the closure in the counterclockwise direction. Make sure that the housing cover fits correctly and locks flush in place. The device is only protected against the ingress of water and dirt if the cover is closed properly.

Inserting the battery

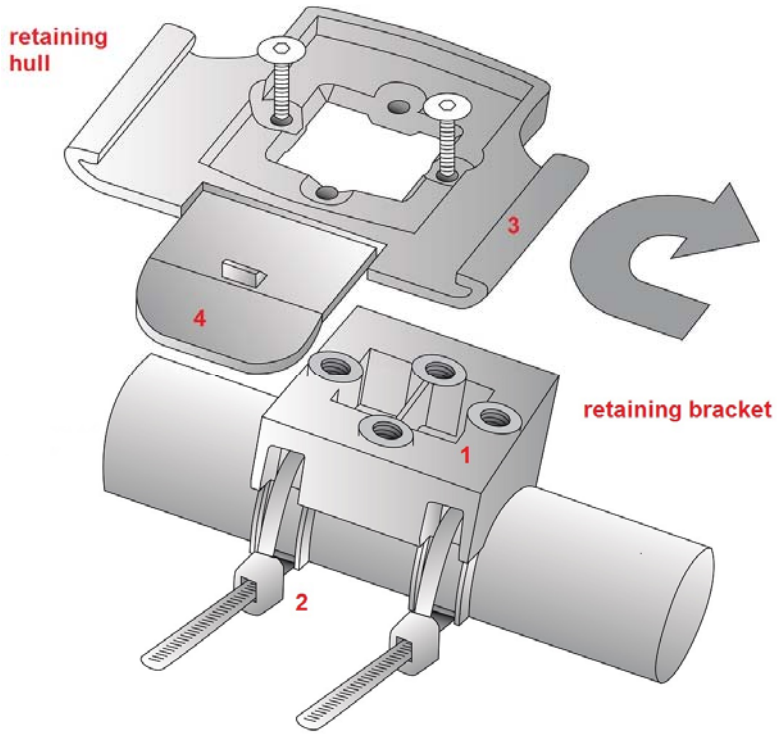
First open the housing cover. Take out the battery using the plastic flap. When you set the battery back in, make sure the labelling faces up and the metal contacts towards the pins in the device.

Inserting a micro SD card

First open the housing cover. Remove the battery if necessary. Then slide the metallic retaining plate for the micro-SD card upwards and then flip it up from underneath. You can now insert a micro-SD card.

Make sure that the contacts on the card are pointing downwards. Then flip the retaining plate back down towards the device and lock it in place by sliding it downwards.

Retaining bracket

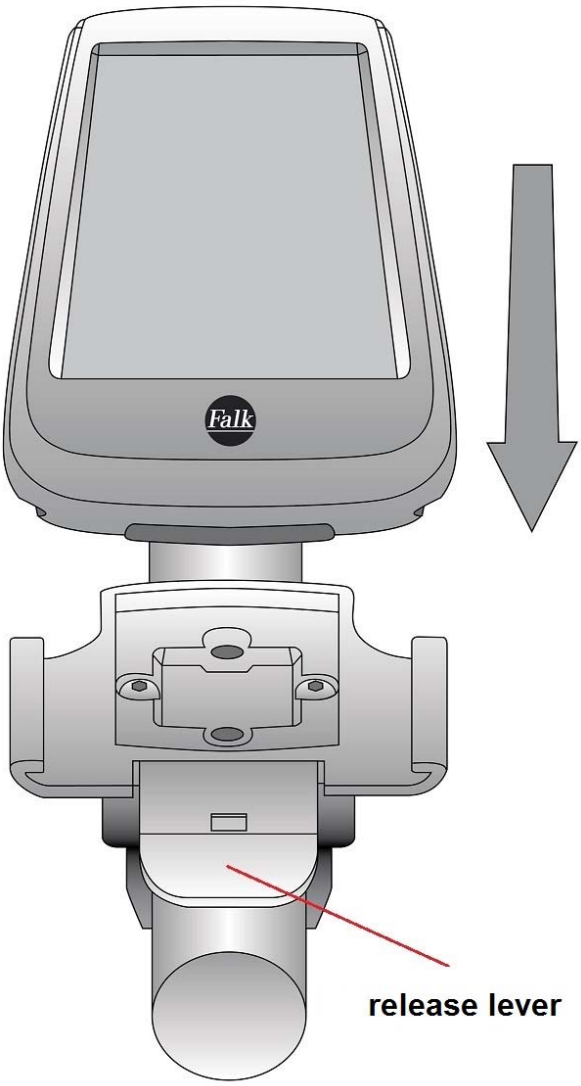


To fit the retaining bracket on the bicycle, proceed as follows:

1. Set the retaining bracket on the handlebar or stem.
2. Pull the cable ties through the gaps. Make sure they fit tightly.
3. Fit the screws through the retaining hull and screw them into the bracket. To fit it on the stem, you can rotate the retaining hull by 90 degrees. To do this, undo the screws, rotate the retaining hull by 90 degrees and then tighten the screws again.

Caution: Please make sure the cable ties are fastened tightly to the handlebar, so that the retaining bracket doesn't move when you are on uneven terrain. The bracket is supplied with a "tire tread" on the inside to ensure that it is not moving.

Attaching the device to the bracket



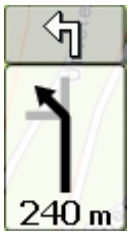
Slide the device into the bracket from the front. Make sure when you do this that it is inserted correctly into the guide rails at the side of the bracket. The device can be heard to lock in place in the bracket.
To release the device from the bracket, press the release lever down and slide the device out of the bracket.

1. Navigation view

Info Box: Shows information about the calculated route. Tap on the box to select other information which should be displayed there. For example, you can also display the current altitude, the time or the gradient.
Note: If you select "north bearing" and no value is displayed, please calibrate the compass (see Chap. 6.3.5).

Map: Shows the map extract with your current position. However, you can also move the map with your finger. Using the button, which then appears at the bottom, you can return the map back to your current position.

Next Manoeuvre:



In the manoeuvre box you are shown, via an arrow, the next turn-off direction, other roads which lead off and the distance to your next manoeuvre. If you are on a roundabout, the other roads which lead off are also shown in addition to your turn-off arrow.
Relevant crossroads and junctions located before you get to your next turn-off point are also shown. If there are several crossroads leading off prior to your next manoeuvre, numbers at the side indicate how many crossroads you still need to pass.

Note: If you click on the manoeuvre box, the system will tell you what the next turn-off command is.
If you need to perform several manoeuvres in quick succession, the next-but-one manoeuvre is shown in the form of a directional arrow above the Manoeuvre box (with a grey background). This means you can always see where you are heading in good time.

Main Menu: The main menu button takes you to the menu guidance screen.

Altitude Profile: Displays and hides the altitude profile on the map. If you tap on the altitude profile which is shown, the entire altitude profile is displayed to you.

Rapid Access Menu: Offers faster access to specific functions. When you tap on the symbol, three functions are shown in the bar at the bottom. You can decide yourself which functions are displayed there (see Chap. 6.3.10).
You can access the following functions as standard:
- starts the track recording. If recording is taking place: - pauses the recording. If you tap on this symbol for a long time, this stops the recording; the track is saved. You will find all the information you need about tracks and about track recording in Chapter 11.
Note: It is recommended, before you start the track recording, that you calibrate the barometer manually (see Chap. 6.3.6).
- saves the current position (see Chap. 8)
- shows a large-scale view of the compass. The current viewing direction is used to indicate which direction north is situated in.

Tip: If you tap on the rapid access menu button for a long time, you can change the functions which are set.

Current Street / Coordinates: Here you are shown the street you are currently located on. When you are on off-road terrain, you are shown the coordinates of your current location.

Current Position: Your current position is marked by a red arrow on the map.

Zoom Button: Tap on the zoom button and then on the plus or minus symbol to adjust the scale of the map.

GPS Signal: Indicates the status of the GPS reception.
GPS signal is not sufficiently strong to allow positioning. Signals are being received from fewer than 3 satellites.
GPS signal is sufficiently strong to allow positioning. Signals are being received from 3 satellites.
A high-quality GPS signal is being received that allows your elevation to be determined. Signals are being received from at least 4 satellites.

Means of Transport: The symbols and tell you which means of transport you have currently selected.

Compass: Indicates the current compass direction. If the compass arrow is shown in red, the compass needs to be recalibrated. If you display the compass via the rapid access menu (see above) on a large scale on the map, a "Calibrate compass" button appears. Tap on this button to calibrate the compass.
Alternatively, you can also calibrate the compass on the settings menu under **"Settings > System / General > Calibrate compass"**.

Battery: The battery symbol shows you the status of the battery.

Batteries have at least 70% of capacity remaining

Batteries have between 15 and 70% of capacity remaining

Batteries have less than 15% of capacity remaining

Device connected to power source

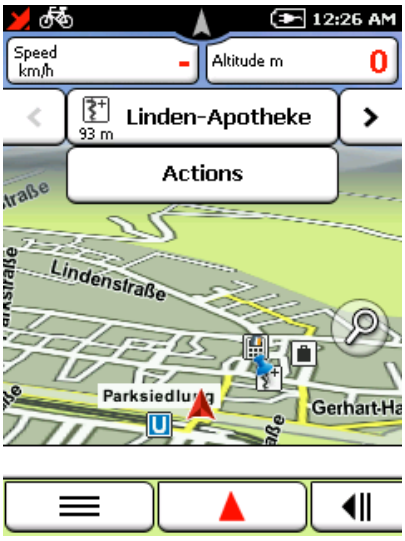
Tip: If on the navigation view you tap on the menu button for a long time, all of the navigation information is hidden and only the map is displayed.
Switching to the menu or tapping again for a long time will take you back to the normal view.

Click on map
If you tap on a point on the map, the point is marked with a pin and the address or position is displayed. If you then tap on "Actions", you can for example navigate to the marked point or save the point as a waypoint.

Clickable POIs
With just one click on a POI icon on the map, you can easily display all the information you need to know about the POIs which are shown, remember the position, start a radius search or select the POI for route calculation.
Select a POI icon on the map about which you would like to know more information.
If you tap on the name of the POI, you will be shown the detailed view for this POI.
An **Actions** button appears below the name.

Tap on it. The actions mentioned above are now available to you.

Tap on **Close** in the info box or on the red arrow at the bottom edge of the screen to switch back to the map view.



2. Main menu

The main menu gives you access to the different functions on your device which are explained one after the other in the following chapters. To switch from the map view to the main menu, tap on . To then return to the map view, tap on **Map**.

3. Destination entry

On the destination entry screen, you have the option of entering any destination you want in order to be navigated to it. Various possibilities for doing this are available to you and they are explained one after the other below.

3.1 Address

Here you can navigate to a destination by entering an address. You can enter a full address with the street and street number.

Note: With the basemap it is not always possible to enter a street number.

To enter an address, carry out the following steps:
First tap in the main menu on "Destination entry" and then on "Address".
You can now enter the city name first or enter a postcode by tapping on 123.

Note: With the basemap it is not possible to enter a postcode.
Tap on **Next** to enter the street and street number.
You can also tap on the city name or street name in the text box to confirm the entry.

Note: If you do not wish to further restrict your search by selecting a street and / or street number and simply want to navigate to the centre of the destination city, simply tap on **Centre** after selecting the city with **Next**. If you just want to navigate to a street without a street number, tap after entering the street on **Street Centre**.

The button allows you to view the destination on the map in advance.
If you tap on the country flag in the upper section of the screen, you can select the destination country (if you have also installed other country maps). You will find further information about this in Chapter 6.1.3.
To enter umlauts or special characters, press on the corresponding basic letter for a long time.
Once you have entered a letter, all of the letters which are no longer possible will be blanked out.

If you tap on , a list containing all possible city names for your entry will be displayed.

3.2 Home

The Home function takes you back home without any bother at any time.
When you first start the device, you will be asked to enter your home address.
After you have entered your address once, it is saved and you can navigate there at any time by tapping on "Home" once. The route from your current position to your home is calculated immediately.
You can change the saved address in the settings menu at any time.

3.3 Points of interest

Your Falk LUX contains countless points of interest such as restaurants, viewing points, natural monuments, places to stay, places to visit and lots more.
If you select "Points of interest" on the destination entry screen, a list containing all categories appears. You can select individual categories by tapping on them or select all categories at once by tapping on "All" (top right).

Tap on **Next** (or on if you want to search for a name of a category).

Next you must specify a search centre for your search. The POIs will then be displayed sorted according to their distance from this point.

The search centre can be a waypoint, your current location, the current destination, along the route, a city, an address, a position on the map or coordinates.

The results are then displayed in a list.
You then have the following options:
Sort – here you can sort the POIs according to various criteria

– displays the selected POI on the map
Calculate – starts the route calculation to the selected POI
Double click – opens the detailed view for a POI

– allows you to search for a POI by entering text

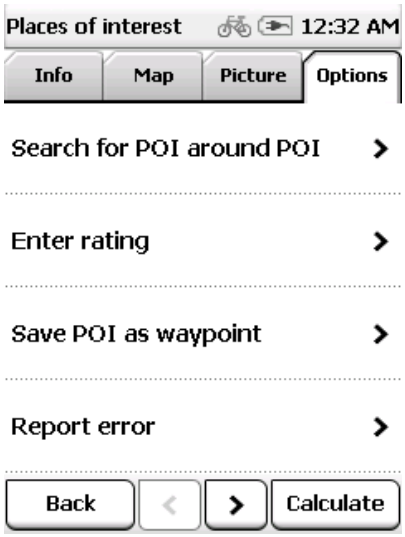
- shows you special Premium POIs around the search centre. If these exist, they always appear at the beginning of the list.

Detailed view of a POI
In the detailed view you will find all of the available information about a POI.
At the top you can switch between the Info, Map, Picture (optional) and Options screens by tapping on the tabs.
Info shows you the address, the distance and a descriptive text.

"**Map**"shows you the POI on the map view.

Via "**Picture**" you can view a picture of the selected POI if one exists.

In the **Options** you also have the following possibilities:



Search for POI around POI - Searches for another POI around the current one (if for example you would like to find a restaurant near to the hostel where you are staying).

Enter rating - Possibility of rating the POI. The rating is then displayed at the top in the detailed view.

Save POI as waypoint - Adds the POI to your own waypoints.

Report error – Adds a POI error to the map errors.

You can use the two arrows at the bottom to scroll to the next or previous POI from the list.
Calculate starts the route calculation to this POI.
Back switches back to the list of POIs.

3.4 Previous destinations

This function allows you to select the previous destinations that you entered very easily. The previous forty destinations are automatically saved.

3.5 Position on map

Here you can mark a point on the map in order to navigate there. You can also move the map here using your finger. If a point which is located in a city or on a street is marked, the address for this point is displayed. Otherwise the geocoordinates are displayed.

Tip: Zoom out via the "minus" button so that you can move the map to the correct point more quickly.

3.6 Waypoints

A waypoint is a position or address which has been saved. You can create waypoints yourself (see Chap. 10) so that you can then navigate to the point again at a later date.

Here you can now select a destination from the waypoints which are located on your device. These may be waypoints you have created yourself or imported waypoints.
To do this, a search centre must first be stipulated.
The waypoints are then displayed sorted according to their distance from this point.

The search centre can be your current location, the current destination, along the route, a city, an address, a position on the map or coordinates.
As an alternative to a search centre, you can also tap on "Display all waypoints"; all waypoints will then be displayed sorted in alphabetical order.

The results are then displayed in a list.

You now have the following options:

Sort - the waypoints can be sorted in alphabetical order or by distance.

- displays the currently selected waypoint on the map

Calculate - starts the route calculation to the selected waypoint

Double click - opens the detailed view for a waypoint

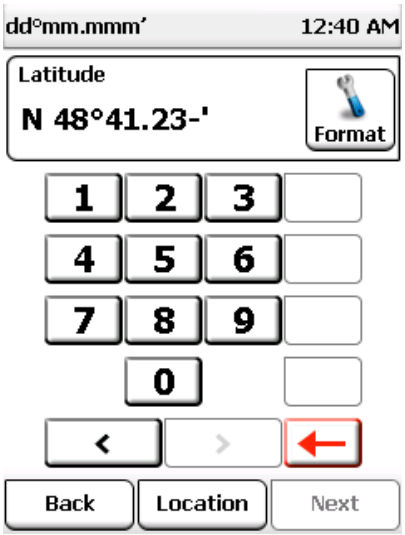
The further functions in relation to waypoints are explained in Chapter 10.

3.7 Coordinates

You can also enter your destination via coordinates.
This function is particularly helpful for reaching a precise location in open terrain where it is not possible to specify an address.
You can also use the entry of the coordinates for geocaching.

Note: The entry format is important here as there are different formats for coordinates.
The preset format is based on the pattern of degrees/decimal minutes (dd°mm.mmmm´).
To set a different format, tap on "Format" on the right.
A list containing possible formats will then be displayed.
You can change the format again at any time in the settings (see Chap. 6.3.7).

With the degrees/decimal format, the degree of latitude is entered first.
To do this, tap on the right on "N" for "north" (north means north of the equator). Now enter the coordinates.
If you tap on **Next**, you can enter the degree of longitude.
To do this, tap on "E" for "east" (east means east of the prime meridian).



If you click on **Location**, the coordinates of the current position are entered.

Note: As Central Europe is situated north of the equator and east of the zero meridian, you will always use the north/east combination when entering coordinates in this format.

If after entering the degree of longitude you tap on **Next**, it is (if possible) specified which address is located close to the coordinates.
Tap on **Map** to display the point on the map or on **Calculate** to start routing to this location.

3.8 Travel Guide (optional)

The Travel Guide offers you the possibility of searching for POIs in a targeted manner. In doing this, it makes use of Marco Polo Travel Guide content which has been researched by editorial teams.

First you must stipulate the search centre.
This can be a waypoint, the current position, the current destination, a city, your home address, coordinates or the last Travel Guide (if you have already used the Travel Guide previously).
The POIs are then sorted around this search centre.

Next a large number of categories are available to you:

- Top Highlights – Shows you the highlights from all categories for the chosen region
- Places of interest – Buildings or institutions which are particularly worth seeing
- Museums – Museums and exhibitions
- Food & Drink – Restaurants, cafés etc.
- Shopping – Everything you need to know about shopping

Overnight Accommodation – Hotels, motels, hostels etc.
Exhibition Centres & Transport – Exhibition centres, railway stations etc.
Art & Culture – Cultural institutions, galleries etc.
In the Evening – Bars & lounges, cafés, casinos, discos etc.
Favourite Lists – Accesses the favourite lists you have created (you can also transfer lists created on the PC to your device via the Falk Navi-Manager)
All Categories – Accesses all available points of interest.

For many of the categories, further subcategories are available allowing you to refine your search.
For all categories, there are the Highlights and Marco Polo Insider Tips.

Once you have selected the category, the results are displayed to you in a list. You can then view and select the individual POIs from the results.

3.9 Geocaches (optional)

Geocaching is a kind of treasure hunt in which you as the geocacher can find treasure which is hidden using coordinates.

To start navigation to a geocache, select "Geocaches".
Select a desired search centre or click on "All non-found geocaches". The caches are then listed sorted according to their distance from the search centre.
Select your favourite and start the treasure hunt with **Calculate**.

You will find further information about geocaching in Chapter 9.

3.10 Tracks

A track is a route which is precisely defined (with the aid of coordinates placed close to one another which are connected to form a line).

Select "Tracks" on the destination entry screen if you would like to travel along a track.
Select the desired track from the list and tap on **View** to see the track and then on **Start** to start the track.

The further functions in relation to tracks are explained in Chapter 11.

3.11 Tours

A tour is a compilation of several destinations which are navigated to in succession.
To travel along a tour and navigate to the starting point, select "Tours".
Then select the search centre or tap on "Display all tours". The tours are then displayed sorted according to their distance around the search centre.
Select the tour you want from the list and tap on **View** to see the tour and then on **Start** to start the tour.
The further functions in relation to tours are explained in Chapter 1.15.

3.12 Sort menu

Here you can change the order of the functions as you wish within the destination entry screen.
Select a function and move it to the place you want with the aid of the rectangular arrows.
Do not worry - no function will be lost. And even if the functions become mixed up, you can tap on **Restore** to restore them to the preset order.

3.13 Calculated route

Once you have entered a destination, the route options are then enquired about. If a route has then been calculated, you have the option of calling up different information about the route or calculating alternative routes.

- calculates two alternative routes (see 3.13.1).

- displays the altitude profile for the calculated route. If you have already calculated alternative routes, here you can view and compare the altitude profiles for all routes (see 3.13.1).

- here you can set the route options again if necessary.

- displays the route information with a description for the route in a list. In the route description, each road that the route runs along is shown in the form of a list. At the end of each line, the distance travelled along this road is specified. You can mark a line and click on **Display** at the bottom to view this section on the map.

Note: The route description is only available in navigation, not in bearing mode (linear line).

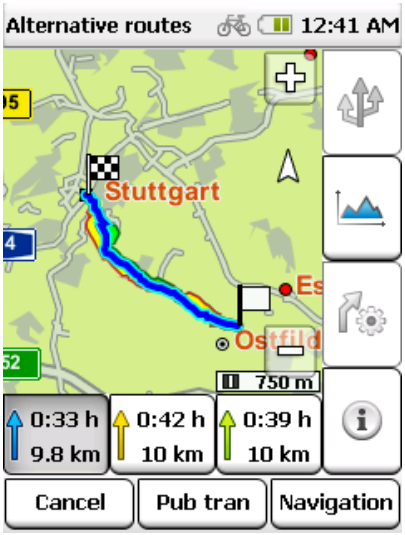
Bus&Train allows you to calculate a route using public transport (see Chap. 3.13.2)
You can start routing via **Navigation**.

Note: The alternatives are also calculated by taking account of the route options entered previously.

Alternative routes and altitude profiles
If after calculating a route you have calculated alternative routes, they are shown in different colours on the map.

You can then select an alternative via the boxes at the bottom which are also marked in the relevant colour.

You can then view the different information for the selected alternative.



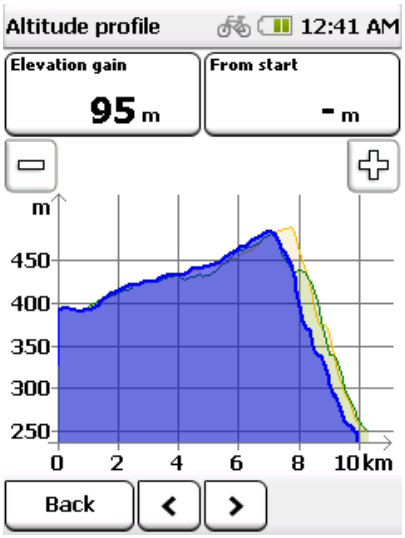
You can compare the altitude profiles for all alternatives if you tap on .

The altitude profiles are marked in the same colour as the route in each case.
The route is plotted on the x axis in km (or in miles). On the y axis the geographical altitude is plotted in m (or in feet).
The scale can be altered using the plus and minus buttons.

You can switch between the altitude profiles using the arrows at the bottom.

Tip: Zoom in closer to identify more details in the altitude profile. If you tap twice on a point on the graph, this point is zoomed in on.

When you click on a point on the graph, it is marked and the distance from the starting point is displayed. By clicking on one of the info boxes, different values which are to be displayed there can be selected.



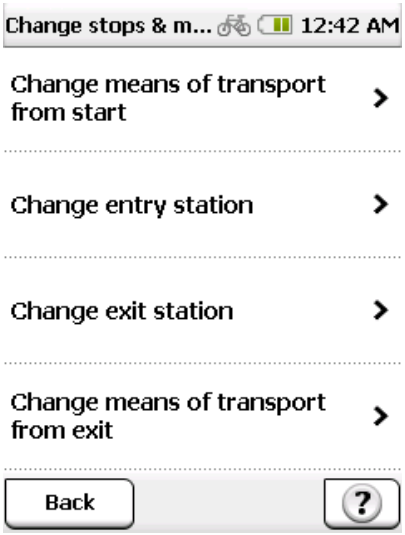
3.13.2 Bus & train (optional)

The bus & train function allows you to incorporate public transport into the route calculation. The stops or stations which are located closest to the starting point and destination point of the route are selected here. The routing runs to the starting station and from the destination station to the final destination. The route calculation includes the approximate travel times for the means of public transport which are used.

After calculating the route, tap on **Bus&Train**.
A list appears containing the start, the entry and exit points for the public transport and the destination.

If you tap on **Edit**, you have the following possibilities for adjusting the connection:

Change means of transport from start – here you can select how you want to navigate to the station you start from (bicycle, pedestrian)
Change means of transport from exit – here you can select how you want to navigate from the destination station to your final destination (bicycle, pedestrian)
Change entry station – here you can select an alternative station from a list
Change exit station – here you can select an alternative destination station from a list

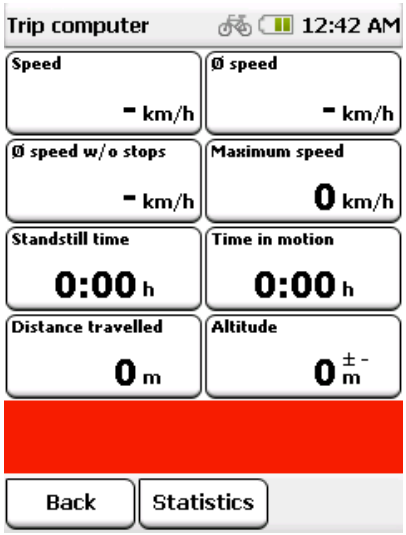


Tap on **Calculate** to confirm your selection and to start the route calculation. Tap on **Navigation** to start routing to the starting station.
Once you arrive at the starting station, the bus & train connection is automatically displayed on the navigation screen.

Note: The automatic switchover depends on the GPS signal. As it is often not possible for the GPS signal to be received in buildings and in underground stations, the device may not switch over automatically. In this case, you can switch over manually. To do this, select **Active Route > Bus & Train Connection** and tap on **Get on**.
On the navigation screen, you can while travelling on the public means of transport move the list which is displayed up or down with your finger. If you tap on an entry in the list, the station is displayed on the map. The **Position** button restores the map to your current position. By tapping on **Bus & Train Connection** you can view the entire connection. Once you arrive at the destination station, the navigation automatically switches back to routing to your final destination point.

Note: The automatic switchover depends on the GPS signal. As it is often not possible for the GPS signal to be received in buildings and in underground stations, the device may not switch over automatically. In this case, you can switch over manually. To do this, select **Active Route > Bus & Train Connection > Get off**.

4. Trip computer



The trip computer provides you with lots of data and figures while you are on the move.
When you tap on trip computer, six preset figures are shown to you.
However, lots of other figures can also be displayed.
To do this, tap on one of the boxes displayed. You can then select from a list of all the available data which figure you would like to have displayed in this box.

The destination is displayed in the red box at the bottom.
Back takes you back to the main menu.

Hidden beneath the **Statistics** button are further figures and data which relate to the route you are currently travelling on. There you can for example view the complete gain or loss of altitude which you have experienced. With the **Reset** button you can reset all values.

5. Tour planner

Tours are routes which contain several destinations one after the other. You can compile your own tours on the device. You can use all sorts of destinations to do this.

5.1 Create new tour

Tap in the main menu on **Tour planner**.
Via "**Plan tour**" you can compile a tour for yourself.

The preset starting point is your current location.
To change this, simply click on the "Start" button. You then have several options for entering a starting point (e.g. address, previous destinations etc.)

You can then also enter the destination point in the same way.
If you want to plan the route using public transport, tap on **by bus & train** (see Chap. 3.13.2).
When you tap on Calculate, the route is calculated and displayed on the map.

In addition to the functions for the calculated route from the normal destination entry, you can also simulate the calculated route here (not where there are several stations).
The route is run through virtually here. You will see on the map how the route proceeds and when and how turns are made. To do this, tap after calculation on **Demo**.

For routes with several stations, you can add destinations to the tour by tapping on the "**Add**

further destinations" button and then "**+ Add station"**.
All kinds of destinations can be used as stations. The different kinds of destinations are entered in the same way as with normal destination entry.
Once you have entered all destinations, tap on **Calculate**. You will then be asked to save the route under a name which you are free to choose. When you confirm the name, the tour is created. You can start the routing by tapping on **Navigation**. You can choose whether the route calculation should start from your current position or the first station.

5.2 Plan circuit (optional)

Tap in the tour planner on **"Plan circuit".** Here you can start a circuit from a stipulated starting address. Here too, the preset starting point is your current location.
After entering the address, you can specify either the required distance or the duration of the circuit. The Falk Navigator then calculates a circuit which reflects the route options that have been set and takes you back to your starting point.

5.3 Select saved tour

If you have already created tours, you can call up a tour via **Select saved tour**.

First select whether the tours should be displayed sorted around your current location or an address. Or you can simply have all tours displayed. They are then listed in alphabetical order.

Select the tour you want from the list and tap on **View**.
The detailed view of the tour is then displayed.
Via **Edit** you can change the settings for the tour.
If you tap on **Start Tour**, you start the routing. You can select whether the route calculation should start from your current position or the first station.

5.3.1 Detailed view of a tour

You will find all of the information you need about a tour in the detailed view.
First select a tour and tap on **View**.

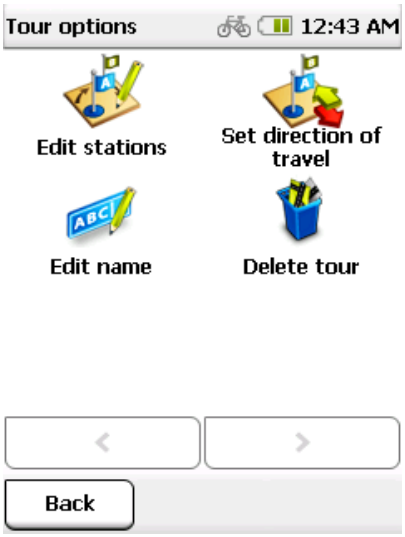
You can switch between three views using the tabs at the top:
Info: Shows the starting point and destination point, as well as the route length and the number of stops.
Map: Shows the tour on the map.
Stations: Displays a list of the individual stations.

In the station list you can also deselect certain destinations on the tour if you do not want to navigate to them. To do this, tap at the end of the line for the station on .
means that the station will be ignored.
means that the station will be navigated to.
means that the station has already been visited (on the current tour)

When you tap on **Start tour**, the tour is started.
To make further settings in relation to the tour, tap on **Edit** (see under Chap. 5.3.2).

5.3.2 Edit tour

To edit a tour, first select a tour and then tap on **View**.
Now tap on **Edit**.



The following setting options are then available to you:

Edit stations – Here it is possible to add further stations, change the sequence of the stations and delete stations again.

Set direction of travel – Here you can reverse the tour. The stations will then be navigated to in reverse order.

Edit name – Here you can edit the name of the tour.

Delete tour – Here the selected tour can be deleted.

6. Settings

The settings for your device are subdivided into three categories.
The navigation settings relate to the routing, the map display comprises all functions of the map and the system / general settings relate to the device or the application as a whole.

6.1 Navigation settings

Here you can make various settings relating to the routing. To do this, click in the menu on **Settings > Navigation Settings**.
The following options can be changed:

6.1.1 Route options (optional)

The route options allow you to define your own individual route ("My route").
The route options include three settings: the means of transport, the route optimisation and the type of routes. These settings are run through as standard after each route calculation.

When it comes to the means of transport, you can choose between bicycle and pedestrian .
With the route optimisation, you have various options for adapting the route:

Flat - the route preferably runs over flat sections.

Hilly - the route preferably runs over hilly sections.

Short / neutral - calculates the shortest route to the destination, regardless of inclines.

Linear route – plots a straight line from your current location to the destination (bearing navigation).

Note: The selected route optimisation also has an impact on the length of the route. For example, if you choose "flat", sections of the route with an incline that is too steep will be avoided, which can result in a longer route.

With the types of routes, you have the following options:

Cycle paths - uses or avoids cycle paths (only in bicycle mode)

Hiking trails - uses or avoids hiking trails (hiking trails can be preferred in pedestrian mode)

Steep gradient – uses or avoids gradients of over 8% (only in bicycle mode)

Roads – uses or avoids roads (only in bicycle mode)

Paths - uses or avoids routes along paths and dirt tracks

Ferries - uses or avoids routes involving ferry connections

Tunnels - uses or avoids routing through tunnels

Via ferrata - uses or avoids going along via ferrata (only in pedestrian mode)

To avoid one of the options, tap on the corresponding symbol. Symbols with a red "X" mean that the corresponding type of route will be avoided. Symbols with a heart mean that preference is given to this type of route.

Note: "Avoid" does not mean that these types of routes are completely ruled out. It is always possible that avoided types of routes will also be used in individual cases.

6.1.2 Set routing

Here you can set whether you want to be guided during navigation by voice output or by a beeping noise. The voice output issues spoken turn-off instructions with indications of distance. The beeping noise output warns you with a beep when you are approaching a turn-off or when you deviate from the calculated route.
Tip: The beeping noise output saves battery capacity compared with voice output.

6.1.3 Stipulate country map

If you have installed several maps on your device, here you can select the map you want from a list. In addition to the preinstalled country map, you can also purchase further maps for your device.

Two different map types are available to choose from here:

Basic Map Plus
The Basic Map Plus is an OpenCycleMap/OpenStreetMap prepared specifically for the products of Falk Outdoor.

It is a simplified outdoor map but still fully routable. The map shows a more or less comprehensive network of routes and in some places also cycle paths and footpaths (depending on the data provided by OpenCycleMap/OpenStreetMap).

In contrast to the Premium Outdoor Map, this map is not quality-tested but rather is based on the information provided by a free community on the internet. For this reason, there is no road classification and there may be limitations in the quality of routes. The coverage of the network of routes is less than that of a quality-tested Falk Premium Outdoor Map. The map shows a simpler representation of the surface area and contains fewer points of interest. However, the familiar design of the Falk Premium Outdoor Map has been kept in order to make it simple to embrace the world of outdoor navigation of Falk Outdoor.

Basic Maps Plus are offered for a large number of European countries. Others will follow and can be downloaded and transferred to the device via the Falk Navi-Manager. It is also possible to navigate by moving from a Premium Outdoor Map to a Basic Map Plus.

Premium Outdoor Map (optional)
The quality-tested Falk Premium Outdoor Maps offer a maximum level of information for outdoor use. The maps are developed in collaboration with outdoor specialists (e.g. KOMPASS cycling and hiking maps) and offer comprehensively standard/uniform coverage. In addition to the road network for a country, these maps contain a huge range of cycle paths, footpaths, hiking trails and forest trails. In some cases, this outdoor route network, which is fully integrated into the map, is just as extensive as the road network for the country in question.
All maps undergo extensive quality testing before they are used on the navigation devices. Outdoor maps from Falk therefore know (almost) all routes to the destination - on foot or by bike. They are also fully routable. Starting from your chosen location, a suitable route to your destination is therefore automatically determined which is then output with the aid of acoustic and visual commands.
The presentation of the map remains sharp and clear on every zoom level.

Set map priority

Only one country map at a time can ever be used for a country. If you have installed several country maps for a country on your device (e.g. Basic Map Plus Germany and Premium Outdoor Partial Map Germany), you can set the priority of the map to be used. This will then be used both for the map display and in the address entry. To do this, proceed as follows:
Tap in the country selection list on the map which is currently inactive (grey background) for a country.
The prompt for the map priority then appears. You then have the following options:

- Always prefer Premium Outdoor Map: Stipulates that (if present) the Premium Outdoor Map will always be used (recommended setting if you are travelling in an area for which you have a Premium Outdoor Map [e.g. southern Germany if you have the Trans-Alpine Premium Outdoor Map]).

- Prefer Basic Map Plus (OSM) for the countries for which only part of a Premium Map exists (e.g. southern Germany): Stipulates that preference will be given to the Basic Maps even if a Premium Outdoor Map is available for part of the country.
This setting is recommended if you have installed the Trans-Alpine Premium Outdoor Map and want to calculate a route which is no longer fully within the area covered by the partial map (e.g. southern Germany). In this case, the Basic Map Plus (OSM) will be used for the corresponding country, if available.

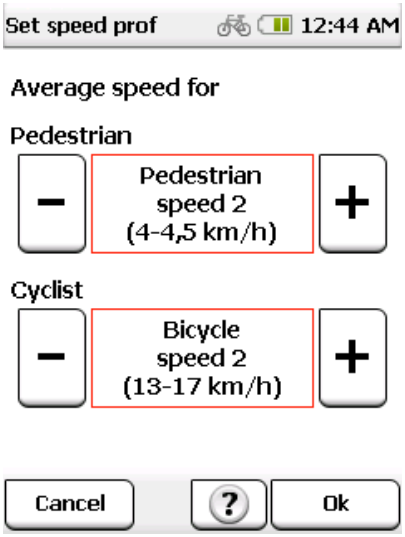
Example: You are planning a tour involving several stops from Frankfurt to Florence. You have installed the Trans-Alpine Premium Outdoor Map and the Basic Maps Plus (OSM) for Germany, Austria and Italy. With the setting described above, you can now follow a route from Frankfurt on the Basic Map Plus Germany as far as the Austrian border. As the Trans-Alpine Premium Outdoor Map also covers the whole of Austria, you will be routed all the way through Austria on this map. In Italy, you will then be routed on the Basic Map Plus Italy as the destination (Florence) is no longer covered by the Trans-Alpine Premium Outdoor Map.

- Always prefer Basic Map Plus (OSM): Stipulates that the Basic Map will always be used even if a Premium Outdoor Map is available for this country or part of this country.

6.1.4 *Speed profile*

This function allows you to set your average speed. The set profile helps to calculate the arrival time and total travel time more exactly.
You can set this setting separately for pedestrian and bicycle mode. You can choose between different speed settings in each case. Set your desired profile using the plus/minus buttons and confirm it with **Ok**.

The set speed profile has an impact on the route.



6.1.5 *Ask about route options*

If this function is activated, the route options are asked about before each route calculation. This function is activated as standard. If you do not frequently change the route options, disable this function.

6.2 Presentation of the map

Here you can make various settings which affect the map view. To do this, click in the menu on **Settings > Presentation of the map**.
The following options can be changed:

6.2.1 Map perspective /

With the map perspective you can switch between the two-dimensional and three-dimensional representation of the map. The respective setting is indicated by the symbol and the text 2D or 3D.

6.2.2 Raster maps (optional) /

With the raster maps you can view landscapes and cities from a bird's-eye perspective via topographic maps. The raster map thus makes it easy for you to get your bearings.
Requirement: You have activated the 2D map view and installed raster maps.

6.2.3 In direction of movement */ map orientated north*

The map can be orientated either in the direction of movement or always to the north.
Note: If you select "In direction of movement", the positional arrow always points upwards. This setting facilitates orientation. If you select "Map orientated north", the positional arrow is located in the middle of the map and rotates according to the direction of movement.

6.2.4 Position on road /

Here you can stipulate whether your current position should be mapped onto the route network.
Note: For geocaching and for navigation on open terrain, it is essential that you switch off this function.

6.2.5 City names on basic map /

If you do not have maps for a continent or country, this function still allows you to display the city names on the basic map to allow better orientation.
If you then subsequently go on to purchase more maps, you can deactivate the labelling on the basic map here.

6.2.6 Auto zoom /

When auto zoom is activated, the scale of the map is adjusted on the basis of your speed (at high speed the map zooms out). If you switch off the auto zoom, you can set the scale of the map on the map view screen yourself. This is then retained.

6.2.7 Points of interest on map

Here you can choose which points of interest should be displayed with small symbols on the map. To do this, select the categories you want. All points of interest in the chosen categories will then be displayed on the map.

6.2.8 *Track recording* /

For the track recording (see Chap. 11), you can set here whether the route covered should be shown on the map view.
Note: This setting only relates to the map view during recording. With a saved track, the route covered can always be displayed on the map at a later date.

6.2.9 *Sort menu*

Here you can change the order of the functions on the settings menu as you wish.
Select a function and move it to the position you want with the aid of the rectangular arrows. Do not worry - no function will be lost. And even if the functions become mixed up, you can tap on **Reset** to restore them to the preset order.

6.3 System / General

Here you can make various settings which affect the device. To do this, click on the menu on **Settings > System / General**.
The following options can be changed:

6.3.1 Battery

The battery option allows you to check the remaining battery capacity.
When connected to a power source, **Charging** is displayed above the capacity meter.

6.3.2 GPS Info

GPS Info indicates the GPS reception signal strength at the current location. Adequate GPS reception is essential for any navigation.
An info page with information about the existing GPS connection and your current position as well as the altitude and speed is displayed. The **Back** button takes you back to the settings menu.
The colouring provides you with information about the GPS status at a quick glance:
Red: GPS signal is not sufficiently strong to allow positioning. Signals are being received from fewer than 3 satellites.
Yellow: GPS signal is sufficiently strong to allow positioning, but not sufficiently strong to allow the current elevation to be determined. Signals are being received from 3 satellites.
Green: A high-quality GPS signal is being received that allows your elevation to be determined. Signals are being received from at least 4 satellites.

6.3.3 Brightness

Here you can set the brightness of the screen.
The brightness settings have a great influence on the power consumption of your navigation device. To save power in battery mode, turn down the brightness level.
In addition, you can select whether the screen should automatically be dimmed when the battery is weak in order to save power.
Confirm your setting by tapping on Ok.

6.3.4 Volume

The volume option allows you to change the volume of your navigation device or switch it off entirely. Optionally, you can if necessary also make a separate volume adjustment for individual functions in the Falk Navigator.
To change the system volume or switch it off entirely, first tap on the **Volume** button. You can increase the volume by tapping on the plus symbol or reduce the volume by tapping on the minus symbol. The volume which is set is indicated to you as a ratio of the maximum volume.
However, you also have the option of switching off the sound with one click. If you tap on **Sound** at the bottom, the sound is muted. When you want to cancel the muting again, click on **Sound** again or on the plus or minus symbol.
Confirm your selection with **Ok** or exit the display with **Cancel**.

Note: When the battery reaches a low level, the volume is automatically reduced to increase the operating time.
Under **Advanced** you can make separate settings in relation to the volume of the speakers

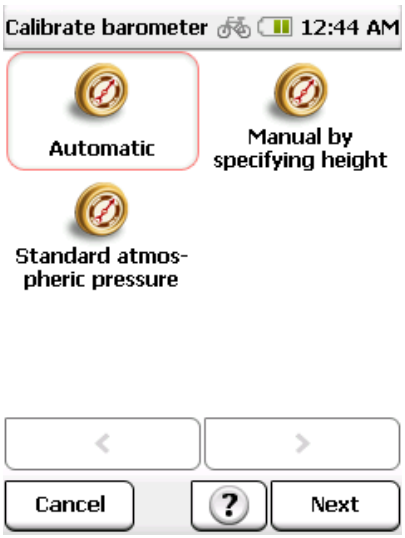
and the system key tones.
Tap on **Ok** to save the settings.
Note: The advanced volume settings are always dependent on the system volume. A change to the system volume therefore also always results in an adjustment to the volume in the individual functions of your Falk Navigator.

6.3.5 Calibrate compass

To guarantee precise orientation of the compass, you should recalibrate the compass at regular intervals. To do this, tap on "Calibrate compass" and follow the instructions on the device.
Note: You should only ever calibrate the compass outdoors. Make sure when calibrating it that no metallic objects are located in the vicinity of the device and that no magnetic or electro-magnetic sources of disturbance (e.g. high-voltage power lines, antennae) are present.

6.3.6 Calibrate barometer

To optimise the accuracy of the height measurement, you should calibrate the barometer at regular intervals.
You can calibrate the barometer in three ways:
Automatic - the barometer is then calibrated completely automatically. (However, to obtain more accurate results it is recommended that you calibrate it manually.)
Manual by specifying height - if you know the height of your current position, enter this and place the device down to rest on a flat surface for a short time.
To standard atmospheric pressure - then the standard atmospheric pressure at sea level is used to determine the height.
Note: The barometer should be calibrated after each change of battery. In changeable weather and where there are large differences in height, it is recommended that you calibrate the barometer several times a day.



6.3.7 Set position format

There are different formats for specifying coordinates. To support the entry of the most common formats, here you can select the format you want.
The following formats are available to you:

dd.ddddd°	(decimal degrees)
dd°mm.mmmm`	(decimal degrees and minutes)
dd°mm`ss.ss"	(decimal degrees, minutes, seconds)
Gauß-Krüger	(easting, northing)
Swiss grid	(longitude, latitude)
UTM	(zone, easting, northing)

This setting is then used in the entire system.
Note: UTM and Gauß-Krüger are formats from printed maps. You can read the coordinates off such maps and enter them in the device.

6.3.8 *Screen auto-off*

You can use this function to set whether and after what period of time the screen automatically switches off. You can choose between never, 30 seconds, 1 minute and 2 minutes. In addition, you can select whether the keylock should also be activated at the same time so that no accidental entries are made.

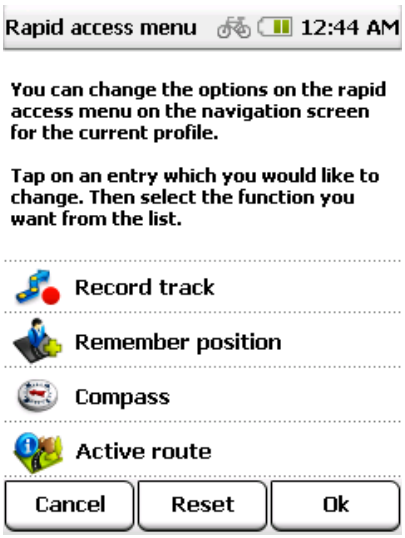
Note: While your screen is switched off, existing navigation operations or track recordings continue to run. If you press the hardware key (when the keylock is active) or click on the screen, the screen is activated again. Announcements continue to be output. This function helps you to extend the life of the battery.

6.3.9 *Set home*

The Set home option allows you to change your home address which you entered when you first started the device.
Tap on **Set home**.
You can enter your home address via the on-screen keypad.
Confirm your entry with **Ok**.
The display automatically switches back to the settings menu.
The address which is entered can be overwritten at any time by entering a new address. You can view which address you have stipulated as your home address under My favourites.

6.3.10 *Rapid access menu*

Adapt the rapid access menu on the navigation screen to reflect your individual needs by stipulating which functions and settings of the Falk Navigator you want to have rapid access to.
Tap on **Settings > System / General > Rapid Access Menu**.
Tap on the function which you would like to change in the rapid access menu view.
Select a function or setting from the **list**.
You can scroll through the list using the arrow buttons. You can use the button to search for a function by entering a name.
Confirm with **Ok**.
Restore allows you to restore the original setting.


Rapid access menu
12:44 AM
You can change the options on the rapid access menu on the navigation screen for the current profile.
Tap on an entry which you would like to change. Then select the function you want from the list.
Record track
Remember position
Compass
Active route
Cancel
Reset
Ok

6.3.11 *Hardware button assignment*

Here you can stipulate which function can be controlled via the control button. Select one of the specified functions from the list and confirm with **Ok**.

6.3.12 *Kilometres / miles* /

Tap on kilometres to determine the unit of measurement for specifying distances. You can switch between kilometres and miles. The speed data is then also specified in the selected format.

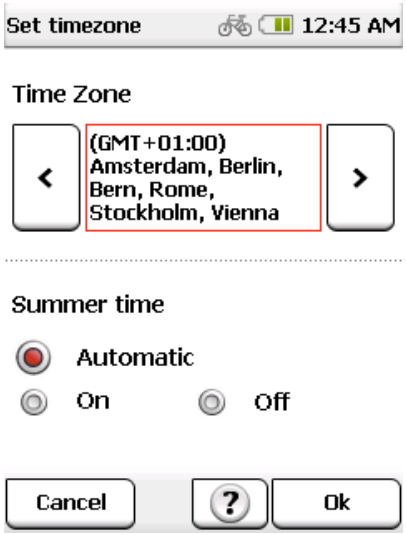
6.3.13 Delete history

The Delete history option allows you to delete all user data. You will see which data will be deleted in the confirmation prompt.

6.3.14 Default settings

If you tap on **Default settings**, you can reset the **settings** of the Falk Navigator to the factory settings; the navigation device is automatically restarted when you do this. You then have the option via the start wizard of making new settings.

6.3.15 Time



The **Time** option allows you to set the time zone and the time format.
Note: The current date and the current time are received with the GPS signal and are thus always set to the nearest second.
To set the time zone in which you are situated, tap on the left or right arrow in the top section of the screen.
An automatic switchover between winter and summer time is preset. If you would prefer to set the summer time manually, select On. If Off is activated, winter time is displayed.
Confirm the settings with **Ok** or exit the display without saving the settings via the **Cancel** button.

6.3.16 Language

Tap on **Language** to select the menu language and a speaker. First select the language in which you want to be guided through the menus in the Falk Navigator. The language is always specified in the respective national language.
If several speakers are preinstalled in a language on your device, select the speaker you want. Confirm your selection with **Ok**.

6.3.17 Screen

If the screen no longer reacts to being tapped on without any errors, it needs to be recalibrated. To do so, you need a stylus (optional) or another blunt object. To avoid damaging the display, never tap it with any pointed object.
Choose the **Screen** option and start **calibration** by confirming the following display screen with **Ok**. If you do not want to carry out the calibration, exit the display by tapping on **Cancel**.
Tap and hold the stylus for a short while on the cross. Repeat the process for each position at which the cross is located.
The calibration process is complete as soon as there is no longer any cross displayed. Tap on the screen again to return to the menu.

6.3.18 Info about

You can use the **Info about** option to display system information, in particular about the version of the **navigation software** used, about the **map material** and **map data** used. The **Ext. Functions** button gives you an overview of the software functions available to you for a

limited period of time.
To exit the display, tap on **Back**.
Tap on the **Copyrights** button to display information about copyrights for the software used. Here you will also find country-specific copyright notices.

6.3.19 Sort menu

Here you can change the order of the functions within the settings menu as you wish. Select a function and move it to the position you want with the aid of the rectangular arrows. Do not worry - no function will be lost. And even if the functions become mixed up, you can tap on **Restore** to restore them to the preset order.

7. Active route

If you have calculated a route and are in navigation mode, you have the following options under **Active route**:

- **Calculate alternatives** – calculates two alternative routes
- **Enter stop-off point** - here you can enter a stop-off point which is then navigated to before the destination which has already been entered.
- **Next destination** – if you have entered a stop-off point or are on a tour, you can navigate to the next destination here.
- **Current tour profile** – if you are travelling along a tour, you can view the entire tour profile here.
- **Active geocache** – if you are looking for a geocache, you can view the detailed view of the current geocache here.
- **Bus & train connection** – if you have calculated a bus & train connection, you can view the whole connection here.

8. Remember position

To remember a position so that you can find your way back there at a later date, use the "Remember position" function. This saves the current position as a waypoint. You then have the option of specifying a name for the location.
The date and the time is first displayed as the name as standard.
You can change the name by pressing the back button ← for a long time and entering another name.
You save the position with **Ok**.
If you want to save a point which is not your current location, you can do this via the waypoint manager (see Chap. 10).

9. Geocaching (optional)

Geocaching is a kind of outdoor treasure hunt in which you as the treasure hunter can find concealed containers, known as geocaches. Via the Falk Navi-Manager you can very easily transfer geocaches from the internet to your navigation device.
On websites such as Geocaching.com or Opencaching.de you will find the respective files to download and you can share your own experiences with other geocachers.

Your new Falk LUX allows you to display tips and descriptions relating to the geocaches very easily on your navigation device.

You will find terminology relating to geocaching and an overview of the symbols used in Chapter 9.5.

9.1 Transfer files to your device

Transfer by Falk Navi-Manager

You can download geocaches to your device via the Falk Navi-Manager.
To do this, download the GPX file you want and then import it via the **GPX-Manager**. You will find detailed instructions on how to do this in Chapter 13.3.

Transfer by plugin

You can send the GPX file directly to the navigation device by weg plugin. However, this function is only available to premium members of Geocaching.com. To do this, click in the detailed view of the geocache on Geocaching.com on **Send to my GPS device**. A small window opens up in which you must then click on the **Falk** tab.

You must now first install the Falk Device Plugin. Via a link you are guided through to the product page for installation.
The download link can be called up there. Select "Save file to PC". The installation is executed by double-clicking on the ".exe" file. After this, the browser needs to be closed again. With the retrieval of the geocache and "Send to my GPS device", the drive can then be selected and the file can be transferred to the device.
Connect your device to the PC and select it in the list.
The **Transfer data** button is now active and can be utilised.

In addition, you also have the option of saving the data to an SD card. Connect a memory card to the computer via a card reader.
In the dropdown list, the SD card is then displayed to you as a drive and can be selected.

Once the transfer is complete, you can start your treasure hunt.

9.2 Search for geocaches

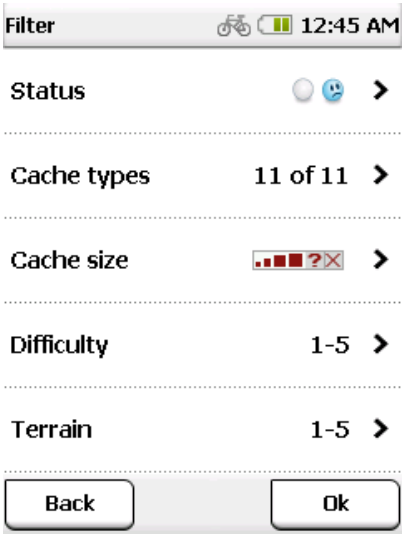
If you want to start a geocache, tap in the main menu on **Geocaching** and then on **Search for geocache**.
Then specify your desired search centre. The geocaches are then sorted according to their distance from this centre and displayed.
If you are looking for **all non-found geocaches**, they are displayed to you sorted in alphabetical order.

Once you have selected a geocache from the list, you can display the geocache on the map by clicking on the map, navigate to it directly by clicking on **Calculate** or call up the detailed view with a double-click.

9.2.1 Cache list

In the list view, all geocaches in the area surrounding your search centre are displayed to you. They are sorted by distance.
You can also search for cache names or cache codes (each geocache has a specific name and a unique code). To do this, start the search with ABC and enter the desired name or code.
You can also filter the geocaches according to specific criteria (see Chap. 9.2.2)

9.2.2 Filter



The **Filter** function allows you to filter out geocaches according to specific criteria.

Status - With this filter you can search for geocaches which are either **untried, not found** or where a **repair is required**.

Cache type - With this filter you can opt specifically for one cache type or for several cache types.

Cache size - With this filter you can decide what size the geocache should be.

Difficulty - With this filter you can decide how difficult it should be to find the desired cache.

Terrain – With this filter you can decide how big the terrain to contend with should be, or how physically strenuous it should be, to find this cache.

Note: The Falk LUX does not support Wherigo caches (GPS-based adventure games).

9.2.3 Detailed view

In the detailed view, you are shown information that exists and also offered the possibility to edit the geocache and comment on it.

Info - Shows you all the information that exists in relation to this geocache. This includes the description, the distance and all relevant details about the cache.

Map - Shows the cache and if applicable the waypoints on the map. You can zoom in and out of the map and move it around.

Waypoints - If your geocache has several specified waypoints, you can display them in a list. These waypoints serve as starting points, stages or car parks and are stored as additional information.
Note: In the case of multicaches (geocaches with several stations), it is advisable, in the waypoint list, to select and calculate the first station directly or alternatively the car park. The main coordinate for the multicache is often not important.

You can read the full description of the cache using the two arrows at the bottom.
Options - offers you various options for editing your cache (see 9.2.4).
Calculate - starts the route calculation to this geocache.
Back - switches back to the list of geocaches.

9.2.4 Options

In the options you can edit geocaches and obtain additional information.

With the **Edit status** option, you can log your geocache as **found, untried** and **not found**. In addition, you can also specify whether the cache needs to be repaired and you have the possibility of leaving a comment via **Next**. This status can be edited at any time.

Show logs allows you to view comments left by other geocachers who have already searched for this geocache. Additional details such as **found** or **not found** are displayed. You too can also save logs in the community so that other geocachers who download this geocache can utilise your log to help them (see Chap. 9.2.7).

You have the option to **Show hints** to make the search easier for you. These hints are already decrypted and can be used immediately provided that hints are available for the respective caches.

Create waypoint

In the case of many multicaches (geocaches with several stations), you need to determine the coordinates of the next station yourself through puzzles or hints. To create the next station on your device, proceed as follows:

Tap on **Create waypoint** and then on the "plus" symbol to add a waypoint.
There you have the option of creating a waypoint by **coordinates**, by **projection from your current location** or by **projection from chosen waypoint**.
Projection from a specific point means that a new position, that is to say a waypoint, is determined by means of a bearing (in degrees) and distance from a specific position.

If you create a waypoint by coordinates, enter the **coordinates** of the new waypoint in the same way as you would enter a destination using coordinates (see Chap. 3.7).

With **waypoint projection from your current location**, your location from which the new waypoint is determined is used.
Note: Make sure there is good GPS reception here to obtain an accurate result.
Then enter the bearing and the distance and confirm by tapping **Next**. Positional details and geocoordinates are output. Enter a name and save the waypoint projection by tapping on **Ok**.

If you would like to perform a projection from an existing waypoint (e.g. the multicache station which you have just reached), select **waypoint projection from chosen waypoint** and mark the desired waypoint (if several exist).
Then click on **Next** and specify the bearing, that is to say the number of degrees, into which the waypoint should rotate and tap on **Next**. Specify the distance and if you wish change the **units (km/m).** If you then click on **Next** again, the entered values will be calculated for you and output in the form of geocoordinates and positional details.

New entry allows you to change the entries, **Map** allows you to display the calculated waypoint on the map and with **Ok** you can confirm the waypoint. Finally, you can specify a name for the waypoint and then save it. You can delete created waypoints again at any time via the "rubbish bin" symbol.

Change description

To edit the description for a geocache, select **Change description**. You can add additional information and delete or edit information which already exists. To restore the original description, use the **Reset** button.

9.2.5 Arrival at the geocache

When you arrive at the geocache, you should deactivate the setting **Position on road** (Settings > Map presentation > Position on road). In addition, you will receive a message when you start the geocache. The background to this is that, when this setting is activated, your position is compared with the road network. However, as geocaches are usually not on a road but are concealed in an area of woodland, bush etc., you are not guided to precisely this point. For this reason, when you arrive at the geocache, you should follow the message and deactivate the setting.

Note: After the geocaching, you should change this setting again for walking expeditions and bike rides.

Furthermore, the **Actions** button appears on your navigation screen. You now have the following options:

Abb. Cache– here you can abort the cache.
Next waypoint – "Next waypoint" allows you to start navigating to the next station if several waypoints exist for the cache.
Log cache – here you can log the cache and leave a comment about the particular waypoint/geocache.
Cache details– here you can display the geocache details in the general detailed view.

Note: You can view the details about the geocache at any time on the main menu under Active route > Active geocache or place this function on the rapid access menu (see Chap. 6.3.10).

9.2.6 Delete geocache

Geocaches can be removed via the device or via the Falk Navi-Manager. To delete a geocache directly on the device, you must delete the corresponding file for the geocache in the GPX manager (see Chap. 13.3). Or you can delete the geocache via the GPX import of the Falk Navi-Manager (see Chap. 15.2)

9.2.7 Logging in the community

The final steps of geocaching are the logging of and commenting on the cache and the subsequent uploading of the saved data.

You can log and comment via the website Geocaching.com.
To do this, register at Geocaching.com and search for your geocache that you would like to comment on. Once you have found the cache, call up the detailed view and click on **Log your visit.**
If you now specify the type of log, you can also leave further comments.
If you have left a trackable in the geocache, specify this with the additional track number so that the cache owner and the other cachers are informed. If you take a trackable away with you, this should be logged. To do this, specify the code on the trackable and log the fact that it has been taken away.

You can make the logging process simple by means of a file which has saved all of your logs with comments. These log data, status and comments are saved in the file **geocache_visit.txt**.
When you call up the profile at Geocaching.com, the function "Manage your fieldnotes" can be called up. There you should call up the function "Upload my fieldnotes". Then call up the "Falk" tab and follow the instructions. Then connect the device to the PC and click on the

"Browse" button. Select the drive for the device and the "Navigator" folder and then the "GeocacheLogFile" folder. There you will find the file "geocache-visit.txt". You can then select "Upload Field Notes" on the website. All logged geocaches are then listed.
Requirement: Existing profile.

9.3 Pocket query

Geocaching.com offers the possibility of creating pocket queries. A pocket query is a compiled file which consists of several filtered geocaches. On Geocaching.com you can compile these pocket queries yourself via filters, download them and transfer them to the device via the Falk Navi-Manager.

Note: Your Falk LUX supports a pocket query with no more than 1,000 geocaches, but this must have a file size of no bigger than 5 MB. Choose a smaller number if necessary. Please note that the larger the file, the longer the conversion process when you start up the device. Please only ever transfer one pocket query to the device and then start the device in order to carry out the conversion. Following successful conversion, another pocket query can be transferred to the system.

9.4 Found geocaches

Geocaches which you have already marked as **found** are stored under **Found geocaches**. Here you can find, view and edit all caches which have already been found.

9.5 Terminology and symbols

Geocaching – Is a kind of electronic treasure hunt or scavenger hunt in which you can find small pieces of treasure using published coordinates and waypoints.

Geocache – Is a small, usually waterproof container in which you will find objects to swap or a logbook. It is the ultimate target of the treasure hunt.

Log – By logging you can document the success or failure of your treasure hunt online. This allows other people and primarily the geocache owner to follow and track what is happening around the cache.

Trackable – The best-known trackables include the Travel Bugs. These are transported from one cache to the next and their journey is documented on a special website. In addition, they have a unique numerical combination for identification.

Geocoins – Geocoins perform the same role as Travel Bugs. They are tracked online and can travel around the world. Geocoins are often individually designed by geocachers and are also used as collectors' items.

Traditional Cache – Is a cache, consisting of a geocache and a logbook. Large cache containers normally contain trackables. Smaller cache containers usually only contain a logbook for you to make an entry in. You can find the exact location of the geocache by means of the coordinates for the cache.

Multicache – Contains several (multi)-positions. The geocache is situated at the final position. There are lots of different versions of multicaches, but usually the first cache position contains a clue as to the second position and the second position contains clues about the third, etc.

Mystery Cache – Is a puzzle which needs to be solved in order to decipher the coordinates. This cache does not fit into other cache categories and is usually a new and unique geocaching experience.

Letterbox Cache – Is another form of the treasure hunt in which clues are used instead of coordinates. In some cases, the letterbox owners link the geocache to clues and to coordinates which are published on Geocaching.com.
The stamp in the letterbox is not used as a trackable. Visitors can use this stamp to record their find.

Event Cache – Is a cache where several geocachers or geocaching organisations meet. On Event Cache sites, a time and coordinates where the event will be taking place are published. The cache is archived after this event.

Megaevent Cache – Is an event cache in which over 500 people from all different places participate. Megaevents offer geocachers one or more days on which they can plan activities.

CITO Event Cache – CITO means **C**ache **I**n **T**rash **O**ut and is an environmentally friendly initiative by global geocaching communities. Geocachers have been meeting since 2002 to clean up parks or geocache-friendly places all over the world.

Earth Cache – Is a special place which people can visit to learn more about unique geoscience features in the world.
Earth Cache sites contain a series of informative notices with cache coordinates.
Earth Cache visitors learn how our planet has been shaped by geological processes, how we manage our resources and how scientists are gathering evidence to learn more about the Earth.

Wherigo Cache – Is a kind of GPS-based adventure game played in reality. A Wherigo Cache makes it possible to interact with a virtual element such as an object or a character during the search for the geocache or at the cache. Wherigo Caches can be displayed by the device, but not used.

Virtual Cache – Is a cache in which the intention is to find a place rather than a container. To log the Virtual Cache, it may be necessary to answer a question about the place, take a photo, perform a task etc. In some cases, you need to have reached the coordinates in order to log the cache.

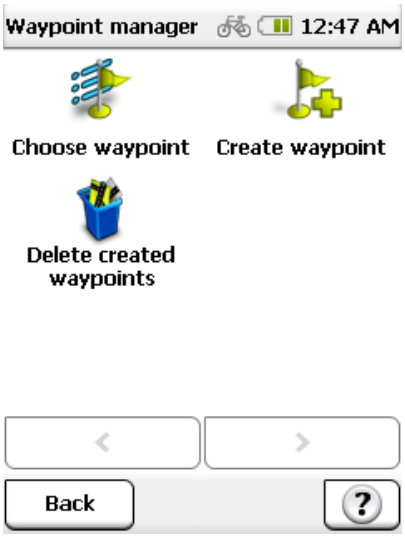
Webcam Cache – Is a cache in which webcams are placed in areas such as parks or other cache territories. The idea behind this is to be photographed by this webcam in order in this way to log the cache in the community.

10. Waypoint manager

Here it is possible to select, create and delete waypoints.

10.1 Choose waypoint

If you want to navigate to a waypoint, tap on "**Choose waypoint**". Then specify the search centre you want. The waypoints will then be displayed, sorted by their distance from this centre.
Alternatively, you can tap on "**Show all waypoints**". All waypoints will then be displayed sorted in alphabetical order.



Once you have selected a waypoint from the list, you can display the waypoint on the map by clicking on **Map**, navigate there directly by clicking on **Calculate** or call up the detailed view with a double-click.

The detailed view offers similar possibilities to the detailed view for a point of interest.

10.2 Create waypoint

You have various possible options for creating a waypoint.

You can:
Use your **current position**, enter an **address**, select a **position on the map**, use one of your **previous destinations**, enter **coordinates** or select a **point of interest**.

Entry then takes place in the same way as when entering a destination (see Chap. 3.6).

Once the destination has been defined, you are asked to enter a name for the new waypoint. In the row for the name, initially the address or the geocoordinates of the waypoint are automatically displayed. However, it is advisable to assign an appropriate name to each waypoint, particularly if several waypoints have already been created.

You can change the name by pressing the back button ← for a long time and entering another name.
Confirm the name with **Ok** and the waypoint is then saved.

10.3 Delete created waypoints

To delete a waypoint that you have created yourself, tap on "**Delete created waypoints**". One or several waypoints can then be marked from the complete list and deleted by clicking on **Ok**.

Note: Imported waypoints can be deleted by deleting the corresponding GPX file in the GPX manager (see Chap. 13.3).

11. Track manager

You can use the track manager to record a new track, start an existing track, or delete or edit tracks. To do this, click in the main menu on **Track manager**.

11.1 Record track

You can record the route that you are riding or walking along. This track recording will help you to be able to retrace the route you have ridden or walked precisely at a later date. After the recording, the track can be displayed on the map and the altitude profile can be viewed. Further information such as the starting and end position, distance and the height gain or loss can then likewise be displayed.

You have two possible options for starting the track recording:
Via the rapid access menu and
or by clicking the "Record button" in the track manager.

Note: It is recommended that you calibrate the barometer manually before you start the track recording (see Chap. 6.3.6).

The recording can be interrupted at any time if, for example, you take a break. To do this, tap on the "Pause button" or in the rapid access menu tap again on .
To continue, tap again on the "Record button" or in the rapid access menu on .

To end the recording and to save the track, tap on the "Stop button" or in the rapid access menu press down on .
You will then be asked to specify the name for the track. In the line for the name, initially the date and the time of the recording are displayed. The track can be saved under this designation. Or you can delete the name line and enter your own name for the track.

Note: It is advisable to enter a recognisable name for tracks so that you can find them more easily at a later date if several tracks are saved on the device.

11.2 Detailed view of a track

To select an existing track, tap in the list on the track you want and then on **View**.

Info - displays all the information about the track.
Map - displays the track on the map. You can zoom in and out and move the map. If you click on "Position", you can show or hide your current position on the map.
Altitude profile - displays the altitude profile for the track.
Tap on **Start** to start the track navigation.
If you want to edit the track further, tap on **Edit** (see Chap.11.3).

11.3 Edit track

To edit a track, tap in the detailed view (see Chap. 11.2) on **Edit**.

The following options are availble to you:

Reverse track – Switches the direction of travel of the track. This also allows you to find your way back to the starting point of a track.

Change name – Here you can change the name of the track.

Delete track – Deletes the track from the device.

11.4 Start track

When you start a track, you have the possibility of deciding whether you want to start the track directly or would like to convert the track into a route in order to obtain turn-off instructions.

11.4.1 Convert track to route (optional)

The Convert track to route function calculates a route which is as similar as possible to the original track.
In addition, in contrast to standard track navigation, you then get spoken instructions which guide you with turn-off instructions. In addition, you are shown the arrival time and the real distance.
Note: If road segments do not exist in the map material or sections of road are avoided by the route options which are set, the alternative route will make an appropriate detour.

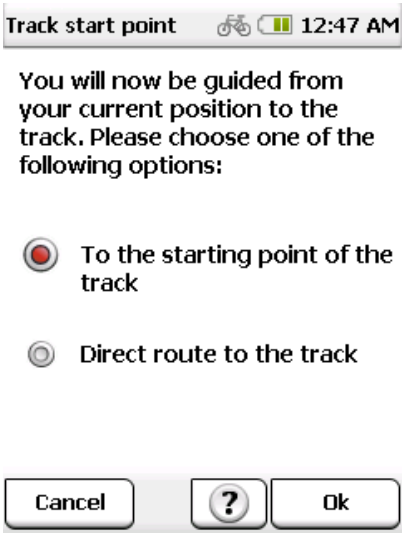
The calculated alternative route is compared with the original track so that you have the option to decide for yourself which version of the route you would like to use.

11.4.2 Start track directly

"Start track directly" starts the track without any changes. You are given directional instructions on the map view, but no spoken instructions relating to turns or distances. Select "Start track directly" and tap on **Ok**.

You can now decide whether, taking account of your current position, you would like to be guided to the starting point of the track or to the nearest point on the track.

11.4.3 Set track start point


Track start point
12:47 AM
You will now be guided from your current position to the track. Please choose one of the following options:
To the starting point of the track
Direct route to the track
Cancel
Ok

If you have selected **Convert route to track**, initially the route is calculated and displayed on the map.
By clicking on "Route" or "Track" you can switch back and forth between the track and the route on the map view.
The chequered flag shows the end point of the track.

To start routing using the alternative route, select "Route" and tap on **Ok**. To retain the original track and start the track guidance without any turn-off instructions, select "Track" and tap on **Ok**.

You can now decide whether, taking account of your current position, you would like to be guided to the starting point of the track or to the nearest point on the track (see picture on the right).

12. Extras

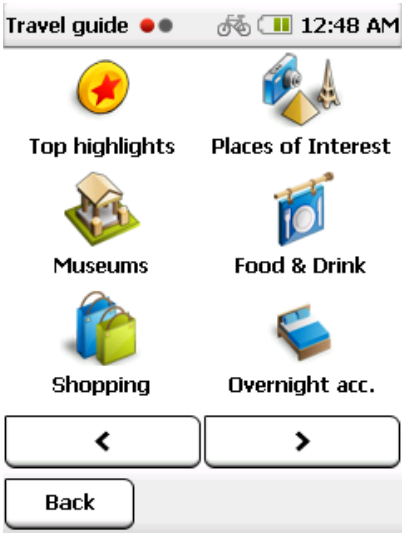
12.1 Travel Guide (optional)

The Travel Guide is the multimedia electronic travel guide in your Falk Navigator. With it you can discover romantic squares, cosy cafés, the finest delicatessens and everything else a town or city has to offer. As well as information in lots of different theme categories, you have access to highlights and Insider Tips from the MARCO POLO Travel Guides. With preinstalled, detailed MARCO POLO Travel Guide content from hundreds of cities and hundreds of thousands of POIs (**P**oints **o**f **I**nterest), in some cases with explanatory text and pictures, the Travel Guide is not just the perfect travel companion but is also a guide that will take you to see exceptional sights.
The following chapters describe how in the Travel Guide you can search specifically for tourist destinations, add, rate and swap new destinations and thus obtain the travel information you want for your destination.

12.1.1 Stipulate a search centre

You must first stipulate a search centre. The structure of the Travel Guide is described in the following chapters so that you can search for specific tourist destinations or simply browse and find out more about the tourist attractions which are of interest to you.
You can stipulate your **current location**, a **destination** that you are currently navigating to (if you are navigating to a destination), a **city centre**, **coordinates** or a **destination close to your home address** as your search centre, or you can simply open one from the **previous Travel Guides** which you called up previously at an earlier point in time.
If your starting point is your **current location**, it is important that the navigation system has noted your current GPS position. If this is not the case, a map view opens up. You will see the last saved location on the map view. There you should tap on the **Update** button and your current position is newly recorded. If the position shown matches your current location, tap on **Ok**.
If you would like to create a Travel Guide for an **address (current destination)** or a **city centre**, you will be asked to enter the address or the city name via the keypad.
Recent Travel Guides are displayed in a list. You can use the arrow keys to scroll back and forth between the recent positions. Tapping on an entry will select it and, if you click on the **Ok** button, it will be set as the search centre.
After the search centre has been stipulated, the screen switches to a view of all available **theme categories**.

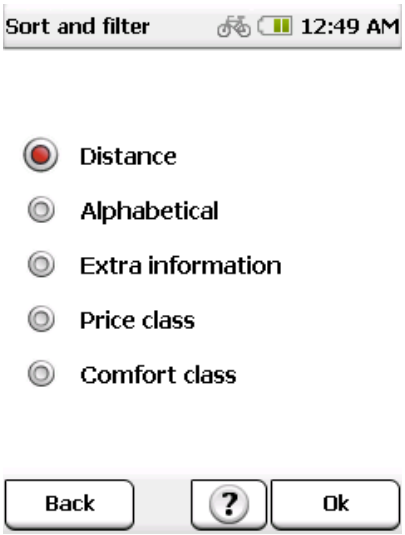
12.1.2 Travel Guide theme category



Travel Guide destinations (POIs) are sorted according to specific themes. Each theme is identified by a symbol. As a result, you can see at a glance the content of a particular theme. Depending on where you have stipulated the central point for your search, all theme categories or only certain theme categories will be available to you. If the central point for your search is in a large city such as Berlin, you are certain to find destinations as well as additional information in all theme categories. If your search is centred on a smaller settlement or a rural area, only those theme categories for which Travel Guide destinations are available will be displayed. If no destinations are available for a particular theme category, this category will not be displayed on the screen.
You can select a theme category by tapping on it.

All of the destinations available for your search centre are shown in a list and are sorted according to distance. Destinations which are closest to the central point for your search appear first in the list.
Note: The distances in the POI list indicate the distance to the destination as the crow flies. The exact distance to be covered is not determined until the route is calculated.
Note: The Top Highlights category contains general destinations which can be found in other theme categories as well.

Sorting additional information



You also have the option of changing the way in which the entries in the list are sorted or filtering the data. To do this, tap on the **Sort** button at the top of the screen.
The POIs are displayed as standard sorted according to their distance from the search centre.
Note: Some options for sorting and filtering are only available for certain categories.
If you tap on the Alphabetical button, the entries found (POIs) will be sorted into **alphabetical** order. You can also filter the entries according to the amount of **extra information** which is available. The entries for which additional information (e.g. descriptions) as well as the standard information (name and address) is available are shown. If you tap on **Price class**, the entries are sorted according to the price class (e.g. for hotels and restaurants: "cheap" (€), "average" (€€), "upmarket" (€€€) class). If you tap on **Comfort class** (for the Overnight accommodation category), the entries are sorted according to the traditional hotel rating system (1 to 5 stars). If you tap on **Rating**, the entries (POIs) are sorted starting with the highest rating (if ratings exist).

Detailed view

If you tap on the list entry again, you can display further information (pictures, telephone numbers or descriptive texts) for a POI in the **detailed view**, or you can start route calculation by tapping on the **Navigation** button.
Next a large number of categories are available to you:

- Top Highlights – Shows you the highlights from all categories for the chosen region
- Places of interest – Buildings or institutions which are particularly worth seeing
- Museums – Museums and exhibitions
- Food & Drink – Restaurants, cafés etc.
- Shopping – Everything you need to know about shopping
- Overnight Accommodation – Hotels, motels, hostels etc.
- In the Evening – Bars & lounges, cafés, casinos, discos etc.
- Exhibition Centres & Transport – Exhibition centres, railway stations etc.
- Art & Culture – Cultural institutions, galleries etc.
- Favourite Lists – Accesses the favourite lists you have created (you can also transfer lists created on the PC to your device via the Falk Navi-Manager)
- All Categories – Accesses all available points of interest.

For many of the categories, further subcategories are available allowing you to refine your search.
For all categories, there are the Highlights and Marco Polo Insider Tips.

Once you have selected the category, the results are displayed to you in a list. You can then view and select the individual POIs from the results.

12.1.3 Detailed view of a POI

What could be better than to find out about travel destinations in advance and then to experience everything an unfamiliar town or city has to offer?
If you have already selected one or more POI categories from a Travel Guide compilation or POI search, would you now like to view individual entries in the list in greater detail? Select a **list entry**, this will be marked with a coloured background. If you tap on it again, you will get to the **detailed view**.
A travel destination generally features **basic information** such as an **address** and **telephone number**. Pictures and/or more detailed descriptive texts are also available for a number of entries. Comprehensive **descriptive texts** (in German only) taken from the **MARCO POLO** Travel Guides are available in particular for the **Top Highlights**.
The detailed view offers you all of the information available for the chosen point of interest at a glance.

In the POI detailed view, the following functions are available to you via the tabs at the top:

Info – Displays the address and the descriptive text for the chosen point of interest.
Map – Shows the location of the point of interest on the map.
Picture – Shows a picture of the point of interest. You can increase or reduce the size of the picture using the plus and minus buttons.
Options – The following functions are available to you under Options:
Search for POI around POI – Here you can search for another POI around the current POI (if for example you would like to find a restaurant near to the current POI).
Enter rating – Here you can enter your own personal rating for the POI. You can award one to five stars.
Save POI as favourite – Here you can save the current point of interest as a favourite.
Report error – Here you can report an error in relation to the point of interest (if for example the address stored is incorrect). The details are entered in the same way as reporting a map error.

Note: Not all of the functions and information described here are available for each point of interest. If an option is not available, the corresponding button will be inactive or will not be shown on the screen.

If it exists, the following information is displayed in the top section of the detailed view:

- The distance from the search centre
- Your rating (and, if you make use of the community link, the community rating)
- With restaurants, if one exists, the price class: €€€ = upmarket price class, €€ = average price class, € = cheap price class.

With hotels, if one exists, the comfort class: One star to five stars.

12.2 Public transport connection planner (optional)

The public transport connection planner allows you to plan a connection using public transport.
Tap in the menu on **Extras > Public Transport Connection Planner**.

If you then tap on **Start**, you can select a station/stop using various search criteria, e.g. "Around location".
You will then be shown a list of possible stations/stops sorted around your current location.
Further search criteria are: "In city", "Around address", "Around home", "Around position on map", "At POI" and "Around current destination".

In a next step, you can select a station/stop and tap on **Ok**.
Select a destination station/stop in the same way and then once again tap on **Ok**.
The connection between the two chosen stations/stops is shown.

All of the information relating to the connection is shown on the connection overview.
As well as the departure and destination station/stop, the changeover stations/stops are also shown, as well as the number of stations/stops for the sections that are passed, and the length of the journey in each case.
At the bottom under "Overall connection" you will see the total number of changes and the total duration of the connection.
You can view the entire connection on the map using the **Map** button.

If you tap on **Calculate**, you can "navigate to the departure station/stop" or, if you are already there, "get onto the bus & train".

Note: If you want to integrate a public transport connection into a navigation from a starting point to a destination point, instead of just calculating a connection between two stations/stops, you can do this on the destination entry screen once the route has been calculated (see Chap. 3.13.2).

12.3 GPX manager

The GPX manager contains all of the GPX files that are located on your device.
These can be either tracks that you have recorded yourself or imported GPX files.
Here you can also delete imported GPX files from the device.

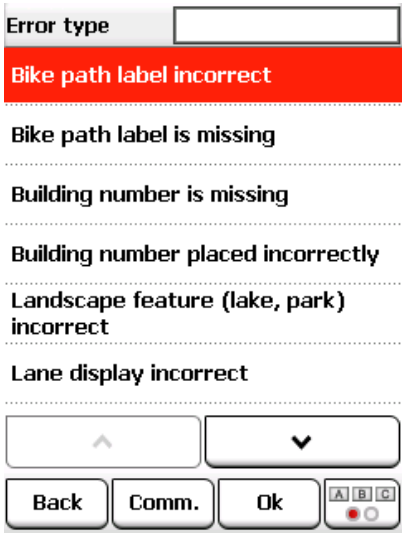
Note: The imported files may contain tracks, tours and waypoints.
They are also displayed in each case in the track manager and waypoint manager.
Caution: When you delete a GPX file, all of the elements contained (tracks, tours and/or waypoints) are deleted.
Tip: If you want to delete a GPX file, but would like to keep a waypoint from it, simply save the waypoint under a different name before you delete the GPX file.

12.4 Map errors

The Falk Navigator allows you to report map errors and thus help to improve the quality and relevance of the maps and the points of interest.
You can then transfer the map errors which you have created yourself to Falk via the Falk Navi-Manager.
You can create map errors on the menu or record them directly while you are travelling and then edit them at a later date.

12.4.1 Create map error on the menu

Tap in the menu on **Extras** and then on **Map error**.
Here you can create new map errors as well as view map errors or POI errors which have already been saved.
Tap on **Create map error** to record a new map error.
You can also enter an address or mark a position on the map.
Confirm your selection with **Ok**.



In a second step, you should select the type of error.
You can then also add a comment about the map error recorded in order to describe the error in greater detail or to record additional information.
Note: Please always leave a comment if you have selected "Other" as the error type.

12.4.2 Create map error while travelling

If you discover an error in the maps while you are out and about, you can also record this quickly and easily while you are travelling.
To do this, go to **Report map error** on the rapid access menu on the navigation view. Your current position is used as the error location. However, you can also change this at a later date.
You should then select the type of error and click on **Ok**.
Note: All created map errors can be edited and changed afterwards (see Chap. 13.4.4).

12.4.3 Create POI error

If you notice an error with a point of interest, you can also record this. In the detailed view for a point of interest, you will find all of the information for this destination.
To create an error for this point of interest, tap on the **Options** tab at the top and then on **Report error**. You can then select an error type from the list and, if you wish, enter a comment about it (**Comment**).
Confirm your selection with **Ok**.

12.4.4 Edit map and POI errors

If you want to change a map or POI error that you have created, tap under **Extras > Map errors** on **Saved map errors** or on **Saved POI errors** depending on which error you would like to edit.
On the map view you will then see all of the map and POI errors which you have created. You can use the arrows at the bottom to switch back and forth between the errors.

Select the error that you would like to change and tap on **Edit**.
You have the following possible options for editing the error:

Correct position on map – Here you can change the position of the error if it was not entered correctly.

Correct error type – Here you can change the type of error.

Delete – Here you can delete errors that have been entered.

Change comment – If you would like to change your comment about the recorded error or would like to enter a comment at a later date, you can do this here.

POI details (only for POI errors) – Here you can once again view the information about the POI for which you have created an error.

12.5 Help

Help takes you to the online help containing brief operating instructions for your navigation system. On each screen on which you see the symbol, you can tap on it and you will be guided directly to the chapter in the Help section which deals with the corresponding topic. This allows you to find an explanation about the respective function quickly in lots of different contexts.
In addition, in the Help section you can select "Demonstrate functions" to get a

demonstration of certain functions.

13. Sort menu

Here you can change the order of the functions within the main menu as you wish. Select a function and move it to the position you want with the aid of the rectangular arrows.
Do not worry - no function will be lost. And even if the functions become mixed up, you can tap on **Restore** to restore them to the preset order.
Note: The order of the menu can also be set for destination entry and the settings. To do this, select "Sort menu" in the appropriate submenu (destination entry or settings).

14. Falk Navi-Manager

In this chapter you are given a brief introduction to the Falk Navi-Manager.
The following explanations relate to version 2.8 of the Navi-Manager. If you are now using a newer version, you will find information about this in the program help section. You can access help via the **?** in the menu bar of the Navi-Manager program interface. There you will also find detailed information about the functions which are outlined below, as well as about other functions.

With the Falk Navi-Manager you are able to transfer country maps, speakers, POIs and GPX files to your device or from the device to your PC.
In addition, you can transfer individually compiled content from the Falk Online Community to the device via the Navi-Manager.

As the memory capacity on your navigation device is limited, the Falk Navi-Manager also offers you the possibility of managing your data by for example only saving the data which is currently required on your navigation device and downloading other data onto a memory card or your PC.

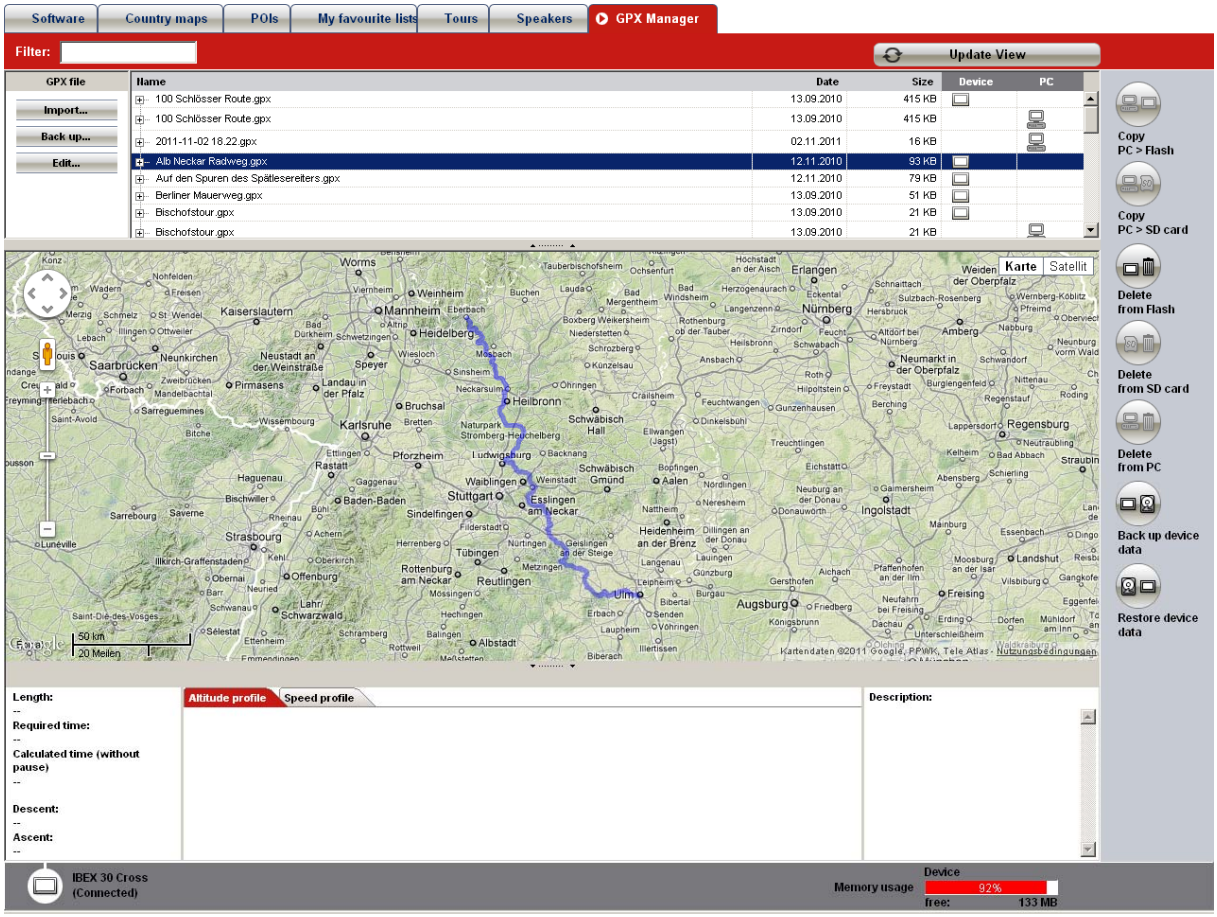
The Falk Navi-Manager provides you with the following further functions:
Import of GPX files
Setting up, activating and changing the theft protection
POI import from, for example, Google Earth
Installation of software updates
Installation of the maps
Creation of a device back-up (optional)

14.1 Introduction to the Falk Navi-Manager

You must first install the Falk Navi-Manager on your PC. To do this, you must first download the program from the internet.
You will find the Navi-Manager on www.falk-navigation.de under "Service > Navi-Manager".
After download is complete, double-click on the file "setup.exe" and then follow the instructions given by the installation wizard.
Now connect your navigation device to your PC via the USB cable.
To start the Falk Navi-Manager, click on the Windows Start menu: Start/Programs/Falk/Navi-Manager or if necessary on the Navi-Manager icon which was placed on your desktop when installation took place. The Falk Navi-Manager then opens up.

14.2 Import of GPX files

GPX is the most common file format for saving tracks, geocaches and waypoints. There are numerous portals and providers on the internet that offer tracks to download. If they are in GPX format, they can easily be transferred to your device and utilised. To transfer GPX files from a portal to your device, you must first save them on your PC.
Then choose "GPX Manager" at the top in the Falk Navi-Manager.
The GPX manager shows all GPX files on the PC or on the device in a list.



You then have the following possible options:
Back up to PC – The selected GPX file from one of the two windows can be saved to a freely selectable directory on the PC.
Delete – Deletes the selected GPX file from the device.
Import – Imports a GPX file from a PC to your device. To be able to manage the GPX files, the files to be imported must first be imported to the Navi-Manager.
Update – Updates the content of the windows if, for example, you have imported a GPX file again.
You can display your waypoints, tracks and geocaches on the map.
Altitude and speed profiles and the time required for the tracks can be called up.

Transfer and save GPX files to the PC

To save imported GPX files and GPX files you have created yourself to the computer, proceed as follows:

1. Select the file you want and use the "Save" button.
2. Once you have acknowledged the notice about the intended storage location with "OK", two entries will appear in your list. There is an entry for the GPX file on your navigation device and an entry for the GPX file on your computer.
3. To find the file you want again on your PC, mark the file and, by clicking the right mouse button, call up the menu item "Show folder". The folder in which the GPX file has been saved is automatically opened.

Import GPX files from your PC to the navigation device

To import downloaded GPX files to your navigation device, please perform the following steps:

1. Select the button "Import".
2. Search for the file you want on your PC, select it and use the button "Open".
3. The file has now been imported to the GPX manager and can now be saved on the navigation device.
4. Mark the file you want and choose "Copy PC > Flash" in the bar on the right.
The GPX file is now saved on your navigation device and can be used.

Delete GPX files from the navigation device

To delete recorded or imported GPX files from your navigation device, please perform the following steps:

1. Select the file you want and use the "Delete from Flash" button in the function bar on the right.
2. Confirm the notice with "Yes" to remove the file.

Edit GPX files

To edit the name or the description of tracks or waypoints, proceed as follows:

1. Select the element you want and use the button "Edit".
2. A window will open up in which you can change the name and description as you wish.

GPX files on the map view

In the GPX manager, you can display waypoints, tracks and geocaches that you have created yourself. The map can be moved using the arrows and the hand icon. The zoom level of the map can be changed with "+" and "-". Viewing options such as satellite and map are located at the top right-hand edge of the map view screen.

In the bottom section of the GPX manager, you can display the altitude and speed profiles, length, time and description of tracks and waypoints. If no information exists in relation to this, the detailed view remains empty at this point.
If no actually required time exists, the anticipated required time is calculated based on the average speeds for cyclists and pedestrians which exist in the navigation device.

14.3 Transfer of content

All of the available data is summarised in various categories. In the top section of the screen interface, the categories Country maps, POIs, My favourite lists, Speakers, Software and Raster maps (optional) are presented in the form of tabs.
When you click on the tab you have selected, all of the data in this category is presented in list form in the overview.
Thanks to row headings and corresponding icons, you can tell from the overview where the individual data for the various categories is saved. The data may be stored

in the internal memory of the navigation device,

on the SD card,

on the PC,

on CD/DVD or

on an internet server.

Important: An active internet connection must exist to enable downloading from the internet.

Copying or deleting:

The selected data is copied from the PC to the SD card.

The selected data is copied from the PC to the internal memory of your device.

The selected data is deleted from the internal memory.

The selected data is deleted from the SD card.

The selected data is deleted from your PC.

Please note that the memory capacity of the internal memory is limited. The capacity utilisation of the internal memory is displayed on the bar at the bottom of the screen.

14.4 Compiling your own tour on the PC

The Falk Navi-Manager offers the possibility, via the online route planner from Falk, of planning your journeys from the comfort of your own PC. You have the option of transferring the tours planned in this way to the device and navigating with them there.
Vital prerequisities for using this function are an active internet connection and connection of the navigation device by USB cable to the PC.
Initially proceed in the manner described in the introduction.
In the opened Falk Navi-Manager, you will find the **Service** item in the menu bar. Select the subitem **Falk Route Planner**.
You will get directly to the webpages of Falk. There you have the option to plan a route with the route planner. First enter your starting address followed by your destination and then click on Plan route.
In the top menu bar of the Navi-Manager, the **Transfer tour** button is activated after the route has been calculated. Select this to transfer the tour to your device. An input box will appear into which you can enter a name for your tour. This name will then be used as the tour name on the navigation device.
You can find the tours transferred to the navigation device in the main menu under the menu item **Tour planner**.
Select the tour by tapping on it and then choose **Ok**. You can now travel along the tour that has been compiled.
Note: The routes which are planned here only travel along the road network.

14.5 Import of POIs

On Falk.de, Google Earth and lots of other websites a large number of points of interest (POIs) are available for you to download. If these POIs exist in a **KML or KMZ format**, you can transfer them to your navigation device via the **KML import plugin** of the Navi-Manager. Visit the corresponding website from which you want to download the KML files, e.g. www.falk.de.

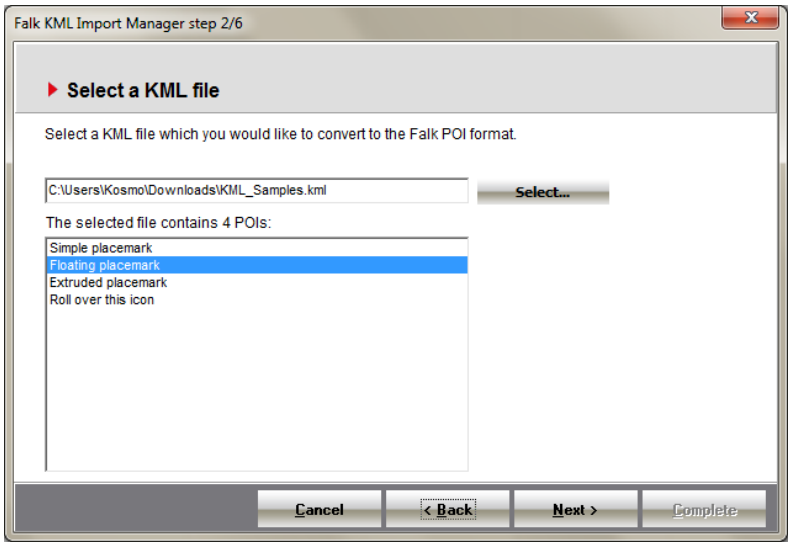
KML files from falk.de

On www.falk.de. you enter on the entry menu (top left) an address within whose surroundings you would like to search for POIs. On the right next to this entry area, you can select a theme for the search, e.g. restaurant, cinema etc.
To complete your entries, you confirm them with the button "**display**". Below the entry area you will see a dropdown list of POIs. In addition, you will see a map display with the POIs marked on it.
To select the POI which you want to transfer to your navigation device, click directly on the map on the corresponding POI or select is by clicking on it from the dropdown list. After a POI has been selected, an info window for the POI appears.
Now select the **Tool** button. A list will open up. Now select **Save** and **For my Falk Navi**.
The POI is saved as a KML file on your PC.

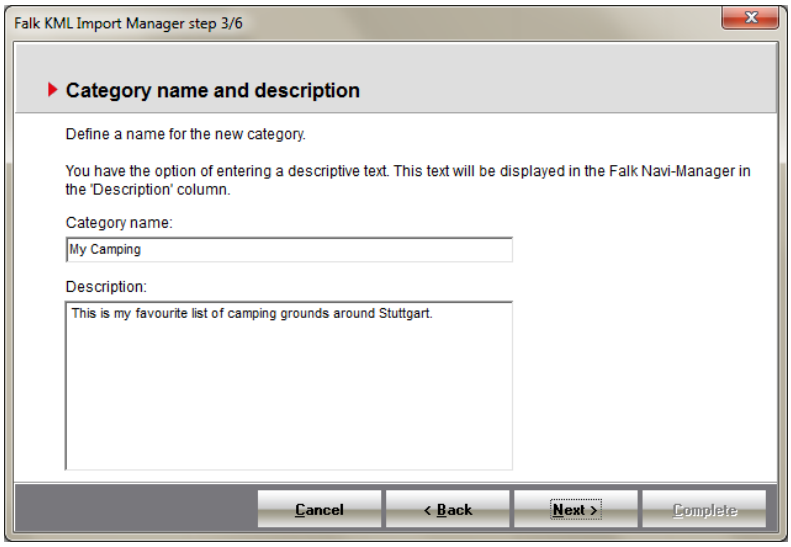
KMZ/KML files from Google Earth

You will also find lots of interesting POIs on Google Earth. The following section describes how you can incorporate several POIs as a new POI category.
Note: Falk has no influence over functions of Google Earth which are described in the instructions. There may therefore be changes to the sequence which is described.
Start the program Google Earth.
Enter a city and a subject theme in the search box at the top left (e.g. "Stuttgart" and "„Museums").
Selection of the POIs which are to be adopted:
You can adopt blocks of POIs by using the umbrella term (e.g. "Museums (1 – 10)") by clicking on the right mouse button and then selecting the menu item "Save under "My Places"".
You can adopt individual POIs by clicking on the right mouse button and then selecting the menu item "Save under "My Places"".
The selected POIs are displayed under "My Places".
Further POIs, including those from other cities, can now also be added to "My Places" in the manner described above.
Click on the "My Places" item with the right mouse button and select the menu item "Save As". The file can now be saved on the PC as a KMZ file.

KML/KMZ import in the Falk Navi-Manager



The following text describes how KML and KMZ files can be imported to the sat nav via the Falk Navi-Manager.
Start the Navi-Manager. On the Navi-Manager screen interface in the menu bar under "**Plugins**", call up the menu item "**KML Import Plugin**".
Here you will then see the window for the import wizard. You can acknowledge this with the **Next** button. With the aid of the "**Select**" button, you can select the KML or KMZ file on your PC which you would like to transfer to your navigation device. Once you have selected a file, a list of the POIs in it appears beneath it. Press the **Next** button.


Falk KML Import Manager step 3/6
Category name and description
Define a name for the new category.
You have the option of entering a descriptive text. This text will be displayed in the Falk Navi-Manager in the 'Description' column.
Category name:
My Camping
Description:
This is my favourite list of camping grounds around Stuttgart.
Cancel
< Back
Next >
Complete

In the next window, you must assign an individual category name for your POI category. You also have the option here of providing more details about the particular POI category. Once you have provided the POI category with a name and the information you want, confirm your entries again with the **Next** button.
In the next step, you have the option of selecting an **icon** to be displayed on the map with the respective POIs. A small selection of icons are suggested for you.

However, you can also select your own **icon** (if one exists) from your PC. This icon should have a **resolution of 72 dpi** and the image size **16x16 pixels**.
Finally, confirm your entry again with the "**Next**" button. If you do not specify your own icon, the default icon shown will be used for displaying the POI on the map.
The final window once again summarises the information for the POI category which is to be imported. When you press the **Complete** button, you start the conversion process (the KML file is converted into the Falk format).
Note: The conversion may take a little time.
The converted POI category appears automatically after a few seconds under the "**My favourites**" tab. The POI category is now located on the PC. To transfer the POI category to the navigation device, you must click on the right-hand side of the window on the button Copy **PC > Flash** or Copy **PC > SD** card.
Following successful transfer, your own POI category is available on the navigation device for further use, e.g. for radius searches or navigation operations.

Note: The POIs which are imported via the KML import plugin cannot be rated on the navigation device.

14.6 Falk Online Community "123POI.com"

In addition to the preinstalled points of interest, you can create your own points of interest in the Falk Community and then transfer them to your device.
There you have the possibility of adding a descriptive text and also pictures to your POIs.
You can comment on POIs from other users with your own experiences or simply rate them using up to 5 stars.
The Falk Community can of course also be used to expand your own content because you can download countless POIs with pictures, ratings and comments from other users to your device.
To be able to use these functionalities via the Navi-Manager, you first require free access with a user name and password. If you already have log-in data from the websites "falk.de" or "123POI.com", you can use this. If not, register at "123POI.com" using the "Register now for free!" button.

14.6.1 Use "Favourite lists" from the Community

When you click on the "My favourites" tab in the main window of the Navi-Manager, an overview list of your available "own" POI collections is displayed.
These may be POI collections which were generated with the KML import plugin.
On the other hand, here you are also shown your own "Favourite lists" which exist at "123POI.com" (to create a new favourite list at "123POI.com", click there in the menu on "My favourite lists" and then on the "Create" tab). The favourite lists from the community are only displayed if you are currently registered with the community via the Navi-Manager.
Your "own" POI collections mentioned above from a KML import or from "123POI.com" can be transferred to the sat nav in the usual way. Content which is located in the online community is presented with a globe symbol.

14.6.2 Upload new and amended ratings

On the sat nav, in the detailed view for a point of interest (POI), you can submit a rating of from 1 to 5 stars. This means, for example, that you can rate a restaurant you have visited.
You can upload these ratings in the Falk Online Community, where they are combined to produce an overall rating. To do this, you must click in the menu under "**Edit**" on "**Transfer new and amended ratings to the Falk Community**".
If the automatic update function is set appropriately, uploading of the new and amended ratings will be performed automatically each time that you start the Navi-Manager.

14.7 Software

Under the Software tab you are shown software updates which are compatible with your device. In addition, you are shown additional products that allow you to expand your device to include particular functions. If you click on "**Buy**", you are automatically directed to the Falk Online Shop where you can get further information about the additional products and buy them.

15. Tips and tricks

Here you will find a number of tips and tricks that will help you to handle the device.

– These buttons allow you in many contexts to switch between the input view and the list view. In the list view, you will see all of the entries which match your previous input. This means you can find what you are looking for even faster.

Help – On any screen on which you see the symbol, you can tap on it and you will be guided directly to the Help chapter which relates to the corresponding theme. This ensures that you can find an explanation of the particular function in many different contexts.

Scrolling and browsing – In list views, you can move the continuous text up and down directly with your finger. In menus with several pages, you can scroll to the next page by swiping your finger sideways.

Hide all – On the navigation view screen, you can hide all elements if you hold down the menu button for a long time. Pressing on it again for a while or switching to the menu will restore the normal view again.

Route options – With the route option "Easy" the route may be longer as gradients of over 4% are avoided. The avoidance of certain types of routes (tunnels, hiking trails etc.) also has an influence on the route which is calculated. After the route has been calculated, you can change the route options again if you tap on . This allows you to compare what difference these settings make.

Map zooming – Zooming in and out of the map helps in many situations. If you want to move the map a large amount, first zoom out. You can then move the map over greater distances more quickly. Zoom in on the map (e.g. in the view of the calculated route) to identify more details.

Set rapid access – You can adapt the rapid access menu on the navigation view screen to cater for your needs (see Chap. 6.3.10). This allows you to always quickly select the functions which you use most frequently.

Save power – You can save power and thus increase the operating life if you switch the device to stand-by mode when you are not actually using it. In addition, you can set the brightness of the screen and the volume to a relatively low level to save power.

16. Troubleshooting

Problem	Possible cause	Solution
Navigation device does not start up	Battery capacity too low	Connect the device to a suitable power source or replace the batteries. If the device is not being used for a prolonged period, please switch it off entirely. Press the power button and tap on "Switch off".
No GPS reception / GPS reception is interrupted	GPS reception may be interfered with in forests, when you are surrounded by tall buildings, where there is heavy cloud cover etc.	Reposition the navigation device if necessary. At least 4 satellites are required for navigation. This information can be retrieved on the device under "Settings" > "System / General" > "GPS Info".
Device no longer responds to entries	Occasionally, overloading may result in the device no longer responding	Carry out a hard reset by holding down the power button for around 3 seconds. The device then switches off entirely.
Compass does not align itself correctly	The compass should be regularly calibrated	Recalibrate the compass.
	There are sources of interference in the immediate vicinity	Make sure that there are no sources of interference such as magnets or high-voltage power lines close by.
Barometer values are not correct	The barometer should be regularly calibrated	When there are breaks in the weather or you experience great gains or losses of altitude, you should calibrate the barometer several times a day.
The destination you are searching for cannot be entered	The corresponding country map may not be available	Please check whether the corresponding detailed map is included with the product or is already preinstalled. Please use the Navi-Manager for any possible installation that may be required.
The track includes jumps in altitude	The barometer was not calibrated prior to the start of the track recording.	It is recommended that you calibrate the barometer manually, by entering an altitude, in particular before recording a track.

17. Technical data

Screen	Display	7.6 cm diagonal (3”) , transflective, LED backlight
	Resolution	240 × 320 pixels
Internal memory	Flash memory	4 GB
	RAM memory	128 MB
Memory card slot		Micro SD card slot up to 16 GB (SDHC)
GPS	Chip Antenna	GloNav GNS7560 - max. 42 Kanäle 12 x 12 GPS-Patch Antenne
Input / output	Input	Screen interface, on-screen keypad
	Speaker	Built in, 1,5 W
	USB	micro USB
Battery	NP 60	Li-Ion battery, 2000 mAh
Environmental conditions	Waterproof rating Operating temperature Storage Atmospheric humidity	IPX 7 -10~+60°C -20~+75°C 20~90% atmospheric humidity

18. Service & support

To provide optimum support to customers, Falk has set up a service centre which handles all warranty claims and repairs.

If you have any questions about the guarantee and warranty, please feel free to contact the technical hotline:

+49 1805 – 003233
(€ 0.14 / min. from a German landline, mobile phone prices may vary, max. € 0.42 / min.)

In the event of a technical defect within the guarantee period, you can also register the device for a free repair on the following website:

http://www.falk-outdoor.com/de/service/garantieabwicklung.html

Scope and duration of the warranty

United Navigation GmbH guarantees, for a period of 24 months (battery 6 months) from the purchase date, that at the point in time of the transfer of risk the product is free of any material defects and defects of title in accordance with Sections 434, 435 of the German Civil Code. If a product which is supplied has evident material or manufacturing defects, which also include damage caused during transportation, the defect must be complained about immediately.
In other respects, the statutory regulations pursuant to Sections 434 ff., 475 para. 1 of the German Civil Code apply.
Proof of purchase is required to make a claim under the guarantee.
The gurantee does not cover defects which have been caused by improper maintenance, unauthorised attempts to open, repair and/or modify the product or its parts, inappropriate installation, use of software added by the customer, viruses, causes outside of the scope of the intended uses which are envisaged, accidents, fire, lightning, power cuts and/or natural disasters as well as similar causes. This guarantee shall further lapse in the event of any attempted or completed alteration or repair to the product by unauthorised people, removal or alteration of the device's serial number.

19. Glossary

Barometer: A barometer is a measuring device used to measure atmospheric pressure. The barometer is used to calculate the current height and is shown on the trip computer.

Menu button: The menu button is the lower button on the left-hand side of the device. When you press the menu button, you can control the volume and brightness levels. However, you can also select another function which is to be controlled using the menu button.

Button: Buttons which are shown on the screen. These many be menu items or command buttons (**Ok**, **Cancel** etc.). Buttons can be operated by tapping on them.

Geocache – Is a small, usually waterproof container in which you will find objects to swap or a logbook. It is the ultimate aim of the hunt for treasure.

Geocaching – Is a kind of electronic treasure hunt or scavenger hunt in which you can find small caches of treasure using published coordinates and waypoints.

Geocoin – Geocoins perform the same role as Travel Bugs. They are tracked online and can travel around the world. Geocoins are often individually designed by geocachers and are also used as collectors' items.

GPS: The Global Positioning System is a satellite-based system for global positioning. Your location can be pinpointed using the conventional GPS satellite system to within 20 metres at any time – provided that a GPS signal is being received.

GPX file: The most common file format for saving tracks or waypoints is the GPX format. The files are saved in the GPX manager. However, the tracks or waypoints they contain are also displayed in the track manager or waypoint manager.
Note: To delete imported waypoints, the corresponding GPX file must be deleted.

Compass: A compass is a measuring instrument for determining the cardinal direction. The compass icon on the navigation view screen shows you the north bearing. If you display the compass in a large-scale view via the rapid access menu, the entire map is orientated in the direction you are looking.

Favourite lists: A compilation of several points of interest is a favourite list. You can create your own points of interest via the Falk Online Community. You can then also compile the points of interest to create favourite lists or use favourite lists and points of interest from other users.

Log – By logging you can document the success or failure of your treasure hunt online. This allows other people and primarily the geocache owner to follow and track what is happening around the cache.

microSD card: You can increase the memory capacity of your device if you use a microSD card. microSD cards with a memory of up to 16 GB can be used (including SDHC). To insert the card into the device, see Chap. 1. Data can be transferred to the SD card using the Falk Navi-Manager (see Chap. 15).

Circuit: In the case of a circuit, the starting point and end point are identical. Either a route length or your preferred travel time can be entered. An appropriate route is calculated automatically from these details.

Point of interest: A point of interest (POI) is an address or position of special interest such

as restaurants, interesting sights, museums and many more besides.
The points of interest on your device are divided up into various categories to make it easier to search for specific destinations. Additional points of interest can be transferred to the device via the Falk Online Community (see Chap. 15.6.1).
Coordinates: Positions can be determined precisely with the aid of coordinates. This makes sense particularly on open terrain away from roads. Coordinates are normally specified with degrees of latitude and longitude.

Tour: Tours are the linking together of waypoints, favourite locations or other destinations in a defined sequence. However, the route between the individual waypoints is not precisely defined, as as the case with tracks.

Track: A track is a route which is precisely defined (with the aid of coordinates placed close to one another which are connected to form a line). This can be displayed on the map so that you can travel along it. Tracks can also be recorded with the device. In track navigation, no turn-offs are displayed or spoken announcements issued.

Trackable – The best-known trackables include the Travel Bugs. These are transported from one cache to the next and their journey is documented on a special website. In addition, they have a unique numerical combination for identification.

Trip computer: The trip computer is the ingenious information and statistics hub in your Falk LUX. Data relating to the current route but also barometer figures (atmospheric pressure, altitude) as well as astronomical figures (sunrise and sunset, lunar phase) can be called up.

Waypoint: A waypoint is a geoposition saved as a pair of coordinates (geographical latitude and longitude) in open terrain. A waypoint can be any point in the countryside, e.g. a branch on a path, a hut, or any desired POI (picturesque point in the countryside, viewing point or interesting sight). Each waypoint can be selected as a destination.

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21. Licence terms and conditions

Licence terms and conditions for the Falk Navigator and Navi-Manager

§ 1

Object of the contract

1. The Licensor is United Navigation GmbH, Marco-Polo-Zentrum, 73760 Ostfildern – hereinafter referred to as the "Licensor". In accordance with § 6, the Licensor grants the Licensee, for the duration of the contract, a single (non-exclusive) right which is restricted in accordance with the terms and conditions below to use the enclosed software program which is stored on a data carrier in machine-readable form (object code) - hereinafter referred to as the "software" – including the data which is contained and the accompanying material. Accompanying material in this context is taken to mean the program description and the instructions for use.
2. An acquisition of rights to the software which goes beyond this is not associated with this granting of usage rights. The Licensor shall retain in particular all of the distribution, exhibition, presentation, performance and publication rights to the software. The same applies to the editing and reproduction rights, unless anything to the contrary is expressly agreed below.

§ 2

Scope of the usage rights

1. The granting of the licence entitles the Licensee to install and run the software and to use the data at one workstation (stand-alone application). Furthermore, the Licensee may use the installation program provided by the software to install the software on a portable Windows CE device (stand-alone application) which is sold by the Licensor. Use of the software and the data on a network or a system comprising multiple workstations shall only be permitted if the Licensee has purchased a special licence for every workstation at which the software and data may be used. The software and data may not be used by employing remote data transmission.
2. The granting of the licence only permits private use of the software; commercial use is prohibited.
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d) the Licensee has handed over the software, data and the accompanying material in full to the recipient without retaining any copies whatsoever.

§ 4

Warranty

1. The Licensee must report obvious defects within an appropriate set period of time and in writing with a precise description of the defect. Defects must be reported – at the option of the Licensee – exclusively to one of the Licensors mentioned above. Reports of obvious defects which are delayed or unsubstantiated shall release the Licensor from its obligations to provide a service to correct the defects. However, in the event that the Licensor becomes involved with unsubstantiated reports of defects which are raised through gross negligence or deliberately, it shall be entitled to invoice the Licensee for the costs associated with this. In the event that the Licensee is a trader, it must, above and beyond its obligation arising from sentence 1, examine the items delivered and services provided by the Licensors immediately and report any defects which are found immediately in writing and with as precise a description of the defect as possible.
2. The Licensor guarantees that the program functions can be executed without any errors in accordance with the program specifications and contract documents. Errors which only result in a negligible reduction in the usability of the software shall not entitle the Licensee to reduce the amount paid for the granting of the usage rights to the object of the contract or to withdraw from the contract.
3. Outside of the claims under the warranty, the Licensee has no claim against the Licensor for updates to the software and/or data.
4. The Licensor shall fulfil its warranty obligations in the event of material defects by providing a subsequent service, specifically at its option by correcting the defect or supplying a replacement product. A subsequent service may be performed in particular by a new version of the program being handed over or by the Licensor indicating possible ways of preventing the effects of the defect. A new version of the program must be accepted by the customer if this results in an acceptable level of adjustment for it. If the subsequent service provided fails to work, if the Licensor is late in providing it, refuses to do so or if the subsequent service is unacceptable to the Licensee in an individual instance, the Licensee shall be entitled, at its option, to withdraw from the contract or to demand a reduction in price. Claims for compensation are governed by § 5.
5. If exceptionally the Licensor has promised or demonstrated characteristic features of the software, the data, the accompanying material or the data carriers expressly or in demonstrating the characteristic feature in its own advertising or has fraudulently failed to disclose defects in these items, paragraphs 2 and 4 above shall not apply. In this case, § 5 paragraph 1 a) shall apply accordingly.
6. A warranty on the part of the Licensor shall not exist in cases of functional impairments which result from the hardware and software environment provided by the Licensee, incorrect operation, incorrect, improper commissioning, use and/or treatment of the subject of the contract by the Licensee, external defective data or other reasons which stem from the Licensee's area of risk, as well as from improper maintenance, alterations

and/or inappropriate repairs made by the Licensee or third parties and also from natural wear and tear, provided that the Licensee is not able to demonstrate that the defect is independent of this.

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Liability

1. The Licensor shall pay compensation or refund wasted expenditure, no matter what the legal ground for this is, only to the following extent:

a) if the Licensor, its legal representatives or vicarious agents have acted with specific intent and if a guarantee has been provided in full in respect of the agreed quality;
b) if the Licensor, its legal representatives or vicarious agents have acted with gross negligence, to the level of the predictable loss which is typical for the contract and should be prevented by the duty to exercise due care;
c) in other cases only when a substantial contractual obligation is breached and when there is a delay, specifically for reimbursement of the typical and predictable loss.

2. Statutory liability in the event of culpable loss of life, physical injury or damage to health and in accordance with the German Product Liability Act shall remain unaffected.
3. The Licensor shall be at liberty to claim contributory negligence.
4. If any data is lost, the Licensor shall only be liable for losses which would have occurred even if the Licensee had backed up its data properly.

§ 6
Term of the contract

1. The contract shall run for an indefinite period of time.
2. The Licensor is entitled to withdraw permission to use the software for a good reason at any time. A good reason shall be deemed to exist in particular if the Licensee fails to comply with the restrictions on use stipulated in § 2 or breaches the terms and conditions for passing on the software laid out in § 3 and does not stop this behaviour immediately even after receiving a written warning with a threat of withdrawal.
3. If permission to use the software is withdrawn, the Licensee must destroy the original data carriers and any copies which exist and delete any data and software which is stored completely and irreversibly. It must provide the Licensor with a written assurance that the items have been completely destroyed and deleted.

§ 7
Statute of limitations

The Licensee's claims on account of defects shall become statute-barred within a year. If the objects of the contract are new moveable assets and the Licensee is a consumer, all claims shall only become statute-barred after 24 months. The statutory regulations shall apply to instances of premeditated or fraudulent behaviour, if there is personal injury or in the case of claims under the German Product Liability Act. The start of the period of limitation shall be governed by the statutory regulations.

§ 8
Final provisions

The agreement reached here shall be governed by the law of the Federal Republic of Germany to the exclusion of the UN Convention on Contracts for the International Sale of Goods. The place of performance for all obligations arising there from shall be Esslingen (Germany). The parties agree that Esslingen (Germany) shall be the place of jurisdiction for all disputes arising from this licence agreement if the Licensee is a trader or is of equal standing to a trader or if its registered office or branch office is abroad.

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